VS Series Owner's Handbook.

COMMODORE
CALAIS

HOLDEN

Owner's Name ....

Address ....

Town ....

State.........................Postcode ....

Model Name ....

Reg. No...........................Eng. No. ....

Odometer Reading ....

Date of Purchase ....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

Vehicle Identification Certificate

Selling Dealer's
Stamp & Signature

General Motors-Holden's Automotive Ltd. Aust. Co. No. 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

Part No. 92054375
May 1996 (VS upgrade, VS Print 6)

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We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to Holden VS:

- Commodore; Executive, Acclaim, Berlina, S, SS
- Calais

Therefore, you may find reference in this Handbook to some equipment not fitted to your own car.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Reference is made throughout this Handbook to 2 different engines: 3800 (V6) and 5000 Injection (V8). If unsure of which engine is fitted to your car, please lift the bonnet and check the identification on the top of the engine.

CHANGE OF ADDRESS OR OWNERSHIP

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Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Mr, Mrs, Ms, Miss, Dr, etc.

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State

Postcode

Car registration number

ISOVIN No (shown on page 8-5 of this handbook)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

Dash board

The following page illustrates the dash board, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

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1-9 Wipers and washers
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1-13 Phone
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1-16 Horn
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1-29 Bonnet release

LAYOUT

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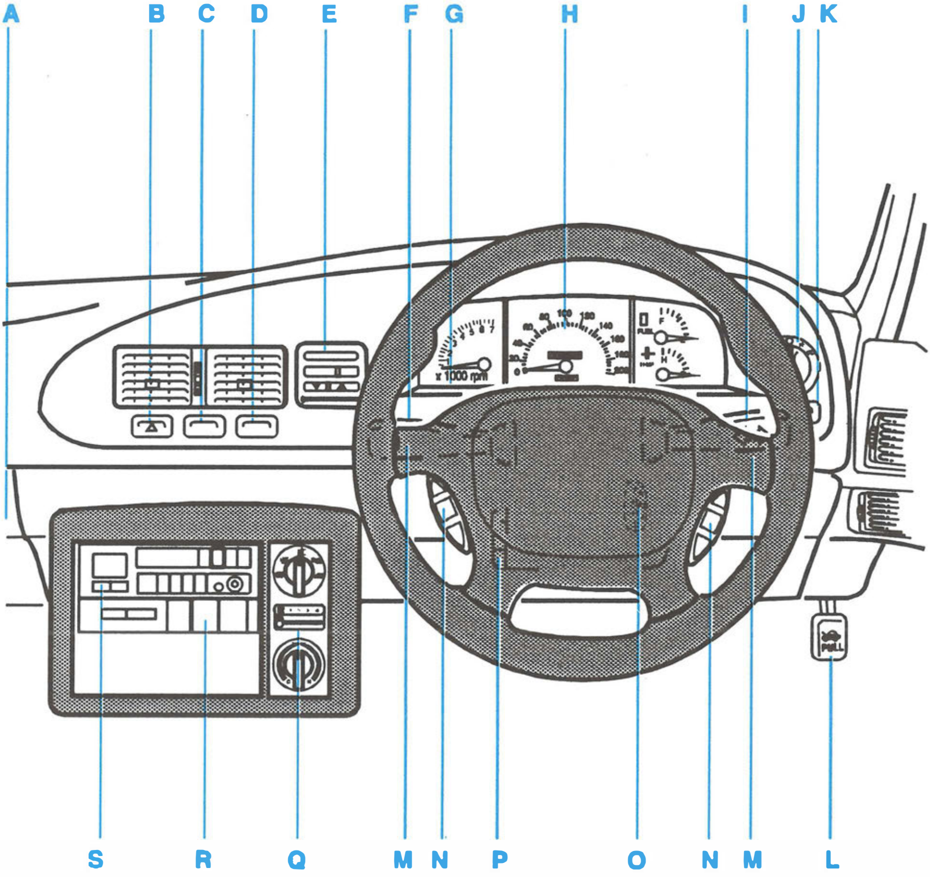

A
B
C
D
E
F
G
H
I
J
K
S
R
Q
M
N
P
O
N
M
L
x 1000 rpm
FUEL
PULL

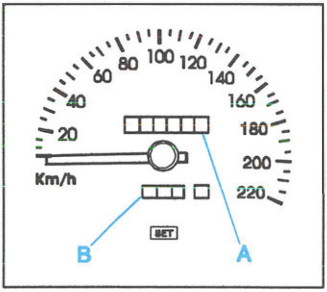
GAUGES

Speedometer

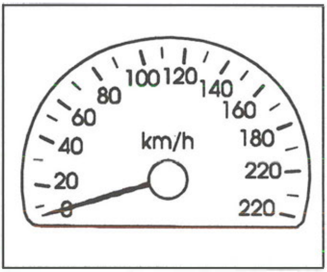
The speedometer shows speed in kilometres per hour.

The odometer (A) records kilometres travelled since the car was built.

The tripmeter (B) records kilometres travelled on a particular trip. Push the SET knob (beneath the speedometer) to reset the tripmeter reading to zero.

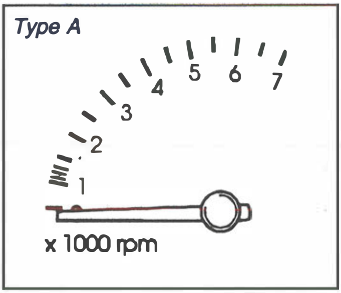

20
40
60
80
100
120
140
160
180
200
220
Km/h
SET
B
A

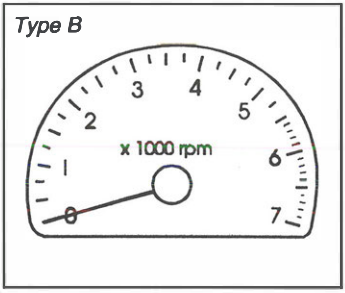
If your car is fitted with a trip computer, the trip meter and odometer will be incorporated in the trip computer display, refer page 1-27.


0
20
40
60
80
100
120
140
160
180
220
220
km/h

Tachometer (if fitted)

The tachometer shows engine speed in revolutions per minute (r.p.m.). Operation in the RED zone may cause serious engine damage.


Type A
1
2
3
4
5
6
7
x 1000 rpm


Type B
0
1
2
3
4
5
6
7
x 1000 rpm

GAUGES

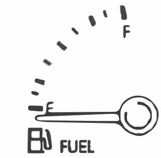
Fuel gauge

The fuel gauge shows the level of fuel in the fuel tank when the ignition is switched ON.

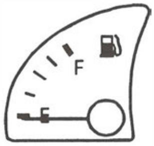
E = empty F = full.

Refer to Chapter 5, *"FUEL"*.

Type A



Type B

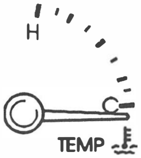


Temperature gauge

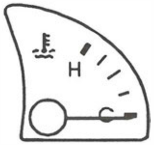
The temperature gauge indicates the engine coolant temperature when the ignition is switched ON.

Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing a caravan may cause the needle to move toward the "H". This is normal, and is not cause for concern. However, if the needle should move all the way to "H" and remain there for more than 30 seconds, you should stop the car as soon as it is safe to do so. Refer page 6-10, *"OVERHEATING"*.

Type A



Type B



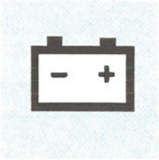
Illumination of the gauges is adjusted by moving the tab on the side of the "headlights dial", refer page 1-10.

WARNING LIGHTS

Battery!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated when driving it indicates that the generator is not charging. If the generator drive belt is OK there is a problem in the charging system and you should see your Holden Dealer.



ABS OFF (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is turned to ON.

If the symbol is illuminated when driving a malfunction of the Anti-lock Brake System is indicated. The car's brake system will still operate conventionally, only the anti-lock operation is impaired, refer page 4-7.

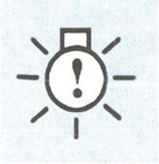
ABS OFF

Tail/brake light bulb failure (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned to ON.

If the symbol is illuminated while the park/head lights are on, then a bulb failure of the tail lights is indicated.

If the symbol is illuminated while the brake pedal is depressed, then a bulb failure of the brake lights is indicated.



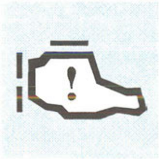
Check power-train!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving it indicates a fault in the electronic engine management system or the automatic transmission (if the car is an automatic).

Although the car may still be driveable it is recommended you reduce load on the power train, i.e. reduce driving speed, don't tow heavy loads or heavily load the car.

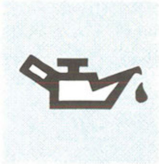
You should have the problem fixed as soon as possible. Only your Holden dealer has the correct diagnostic computer equipment and training to find and fix the problem.



Oil pressure!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.

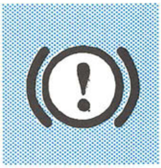


WARNING LIGHTS

Brakes!

To check that the warning light is working, the symbol is displayed when the ignition is turned to start.

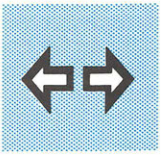
If the symbol is illuminated while driving it indicates a fault with the brakes. You should immediately stop on the side of the road as carefully as possible. Do not proceed until satisfied that cautious progress is possible or that the cause of the problem has been fixed.



Turn signals

The appropriate arrow will flash when the lever on the right side of the steering column is moved up or down *and* the ignition is turned to ON or ACCESSORIES.

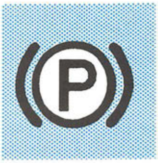
- Both arrows will flash when the Hazard Warning Flasher is switched on, refer page 1-13.
- The indicators will flash at a quicker rate if a globe has blown.



Park brake

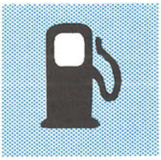
When the park brake is applied and the ignition is turned to ON the symbol will be displayed - until the park brake is released.

On some models a warning will chime if you attempt to drive off without releasing the park brake. When driving, this will repeat every minute, until the park brake is released.



Low fuel (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON. When driving, a warning will chime when this symbol is first displayed, indicating the petrol tank is approaching empty, approx 8 litres.



Over speed (cars fitted with a trip computer)

The speed warning can be adjusted up or down (or completely turned off) via the trip computer, refer page 1-28.

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON. When driving, a warning chime will be heard when this symbol is displayed, reminding you that your desired maximum speed has been exceeded.

"Speed alert" is a similar feature which is provided on sedans and wagons not fitted with a trip computer, refer page 1-23. "Speed alert" gives a chime and flashing light, but not a warning symbol.

SPD

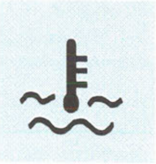
WARNING LIGHTS

Over temperature! (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON.

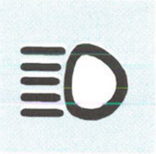
If the symbol is displayed when driving it indicates that the engine water temperature is dangerously hot. You should stop the car as soon as it is safe to do so. Refer page 6-10, for overheating instructions.

The audible warning chime is designed to bring this condition to your attention and will be heard every minute until the condition is rectified.



High beam

This symbol is displayed when the headlight high beams are in use.



Air bag (if fitted)

To check that the warning light is working, the symbol is displayed for a short time when the ignition is first turned ON.

If the symbol is displayed while driving it indicates that the air bag may not inflate in an accident and you should see your Holden Dealer.

**AIR
BAG**

Power shift (with automatic transmission)

The automatic transmission PWR symbol will be displayed when the power shift button is in the out position when driving, indicating that the transmission is operating in the power mode, refer page 4-4.

PWR

Cruise control (if fitted)

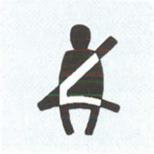
The CRS symbol will be displayed when the cruise control is activated and ready for use. Both the CRS and ON symbols will be displayed when the cruise control is maintaining car speed.

Refer page 1-24.

CRS **ON**

Seat belt

A seat belt warning light is displayed for approximately five seconds when the ignition is first turned to ON. The seat belt warning light is designed to remind occupants to fasten their seat belts.



WIPERS, WASHERS

The lever on the left of the steering wheel column controls the front and rear wipers and washers, which will operate when the ignition is turned to either ON or ACCESSORIES.

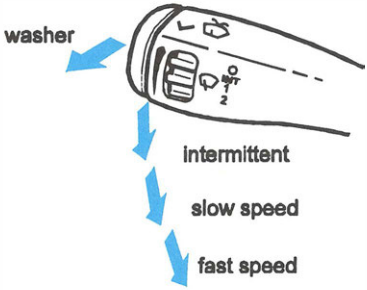
Front wipers and washers

Never operate the wipers on dry glass, as this will damage the rubber and scratch the glass. To obtain a spray of fluid, pull the lever towards you and hold as long as required. This will automatically turn on the wipers for a short time, if not already operating.

Push the lever down to turn on the wipers. If just held gently down the wipers will sweep 'intermittently': once every few seconds. The wipers will sweep intermittently as long as the lever is held.

Pushing the lever further down, to the first 'stop' switches the wipers to the intermittent position and allows the hand to be removed from the lever.

Pushing the lever to the second 'stop' turns the wipers to slow speed. Pushing the lever further down, to the third stop turns the wipers to high speed.

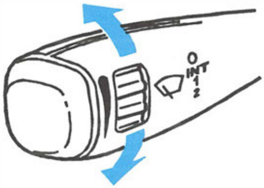


Variable intermittent (if fitted)

The frequency of intermittent wipe can be varied by moving the wheel. Rotate up for a more frequent wipe, or down for a less frequent wipe.

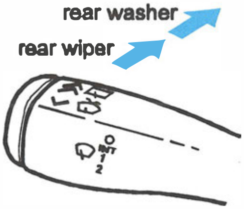
In addition, the intermittent wipe speed is *road speed dependant*, which means that as the car speeds up, so do the wipers.

Refer page 7-8 when topping up washer fluid.



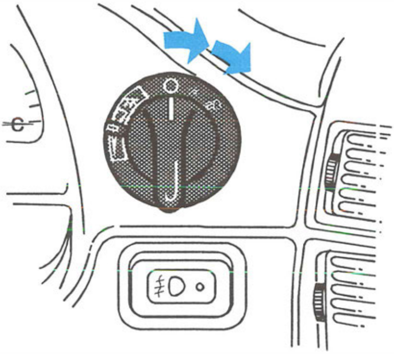
Rear wiper and washer (wagon)

Push the lever away from you, to the first 'stop', to turn on the rear wiper. To turn on the rear washer, push the lever further and hold as long as required.



LIGHTS

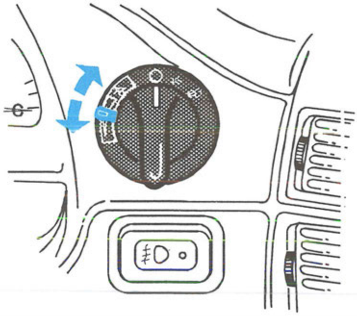
Head lights and park lights



Rotating the knob in the centre of the dial to P≤ turns on the park, tail, rear licence and instrument panel lights.

Rotating the knob to ≢D also turns on the headlights.

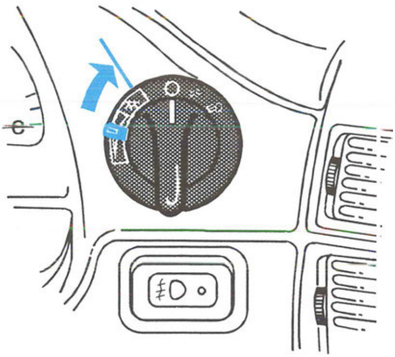
Dimmer - instrument lighting



The instruments are automatically illuminated when the parkers are switched on. The illumination can be switched to *dim* or *bright* by rocking the switch on the outside of the dial.

On higher luxury models the lighting can be adjusted anywhere between *off* and *bright* by holding the tab in the bright or dim position until the desired level is reached.

Interior (dome) light



To turn the light switch on, move the tab to Π

The interior lights will automatically switch on when a door is opened and will switch off 30 seconds after all the doors are closed. Switching the ignition on will, however, over ride the time delay. On higher luxury models, the time delay can also be overridden by turning the light on then off again.

Leaving the interior light switched on (without the engine running) will eventually flatten the battery. To prevent this, on higher luxury models, the interior lights will automatically be switched off 2 hours after the ignition is switched to OFF or LOCK.

Reading lights may individually be turned off or on, refer page 3-14.

LIGHTS

Automatic headlights off

Leaving the head/park lights ON when the engine is not running will eventually flatten the battery. To prevent this, the park/head lights will temporarily switch OFF when the ignition has been switched from ON to OFF and the driver's door is opened....... the car senses that the driver has forgotten to switch off the lights. The lights will stay OFF until the ignition is again switched ON.

On higher luxury models the headlights can be made to automatically switch OFF *after* you have locked the car and walked away, useful for illuminating a path. To set/adjust the time delay from when the driver's door is opened to when the lights automatically switch off:

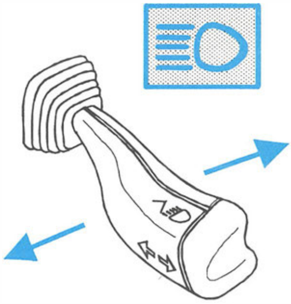
- switch park lights ON
- switch ignition ON
- hold the tab for the instrument lighting in the dim position.
- switch ignition OFF
- open driver's door (this starts the delay period)
- wait desired delay time (maximum of 3 minutes)
- release the tab for the instrument lighting (park lights go out and time delay is set).

If you wish to have the lights ON when leaving the car, wait until they have been automatically switched OFF, then turn the light switch first to OFF, then to PARK or HEADLIGHTS.

High/low beam

High/low beam is controlled by the lever on the right side of the steering wheel column. With the headlights on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. When the high beams are in use, a blue symbol on the instrument panel will be displayed.

It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you; the lights will remain in high-beam as long as the lever is held.

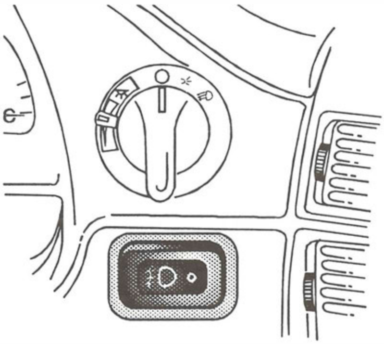


Fog lights (if fitted)

Push the switch to turn the fog lights off or on when the light switch is turned to parkers or headlights. The light in the switch will glow when the fog lights are working.

Fog lights are designed to provide a different illumination of the road to the usual headlight beam. Depending on the density of the fog, different combination of fog/highbeam/lowbeam will improve vision. For-instance, in very heavy fog, vision may be improved by turning the headlights off, and just having the parkers and fog lights on.

Driving speed should be reduced in fog.

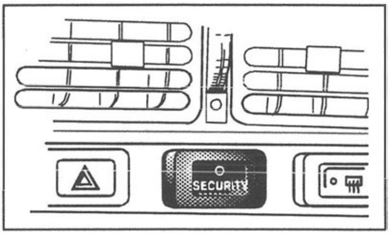


SECURITY, AIR COND

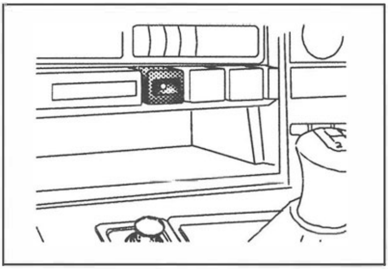
Security light

The security light will flash when the car's security system is armed, refer chapter 2 regarding "security".

The security light for *Berlina and Calais* models is in the middle of the dash.



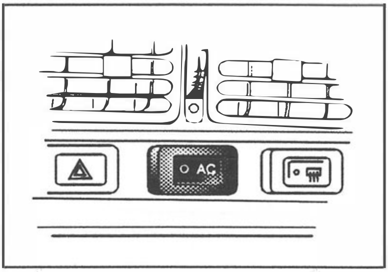
With *Executive* models the light is lower down on the dash.



Air conditioner (if fitted to Executive)

The light in the switch glows when the air conditioner is operating. Push the switch to turn the air conditioner off or on. Refer page 1-18 for more information about air conditioning.

Models fitted with a "Climate Control" have the air conditioner switch incorporated in the Climate Control switches, refer page 1-21.



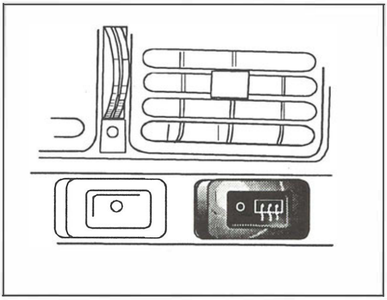
DEMISTER, HAZARD, PHONE

Rear window demister (sedan & wagon)

The demister operates when the ignition is ON. Press the switch to turn the demister on and off, the light in the switch indicates when the demister is working.

To avoid unnecessary electrical consumption switch the demister off when the window is clear. Higher luxury models will automatically switch off after 15 minutes.

In addition to the demister lines on the rear window, higher luxury models have extra lines in the top of the glass. These wires work as a 'diversity' antenna, improving FM radio reception.



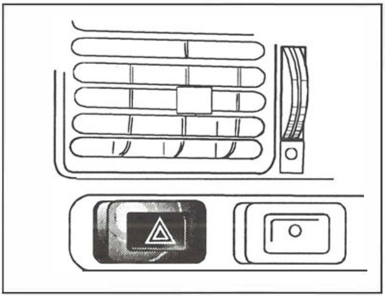
Hazard warning flasher

Press the switch to turn the hazard warning flasher on and off. The hazard warning flasher works regardless of the ignition position.

When turned on, all turn signals will continuously flash.

Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night.

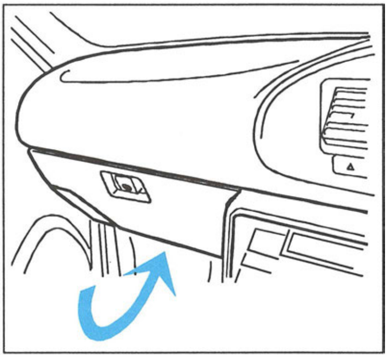
Use of the hazard warning flashers while the car is moving is prohibited by Law in some States/Countries.



Phone

If your model car is fitted with a telephone the operating information will be provided in the glovebox.

A power connection for fitting a telephone is provided for all models, taped under the left side of the dash.



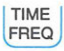
RADIO, CLOCK

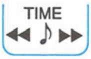
Radio, cassette, clock and CD (if fitted)

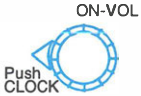
Information on the operation of the radio, cassette and CD (if fitted) is provided in the glovebox. Operating information for adjusting time and *remote* control of the radio via the steering wheel is provided below.

Clock - to adjust time

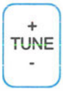
- Switch the ignition to ACCESSORIES or ON position.
- Hold down the time/frequency button. That is the button that switches the display between time and radio frequency. The button will look like one of the three shown below, depending on your model car.

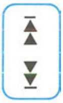


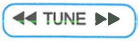




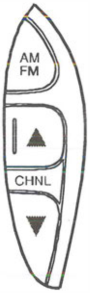
- While the time/frequency button is held down and *time* is shown on the display, press the radio tune button. One side of the tune button increases the minutes, the other side increase the hours. Depending on your model car the tune button will look like one of the three shown below.







Radio controls in steering wheel (if fitted)

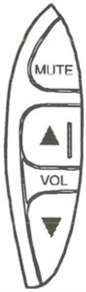


The AM/FM button alternates between AM and FM stations.

If the radio is off, pressing AM/FM will switch the radio on.

Favourite radio stations can be assigned a "preset" number so that they can be quickly recalled, see radio supplement in glovebox.

The CHNL ▲ button switches the radio up to the next preset station, i.e. radio station number 3 is playing; CHNL ▲ is pressed; radio station number 4 will start playing. Likewise, CHNL ▼ switches the radio down a preset station.



The VOL ▲ or ▼ buttons turn the volume up or down. Either hold down the button for as long as required, or tap the button, for small changes in volume.

The MUTE button switches the volume down or up by 20 decibels. Therefore, sound will only be heard if the radio was very loud before muting.

In addition, pressing volume ▲ will immediately *un*-MUTE the radio.

RADIO CONTROLS cont.

Radio P.I.N. (Personal Identification Number)

Your PIN must be entered if the battery is disconnected. The PIN is shown on the security card in the glovebox. To enter:

- turn ignition to accessories and turn radio on ("1" will appear).
- press the radio buttons in your P.I.N. order
- the radio will shortly begin to play.

If an incorrect PIN was entered the number "2" will appear on the display. Following 3 incorrect PINs the display will show " - - - ", and the radio must remain connected to power for approx. 1 hour before the correct P.I.N. can be entered.

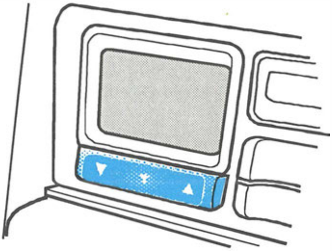
Therefore, if your vehicle repair requires battery disconnection you may wish to provide the servicing dealer with your P.I.N.

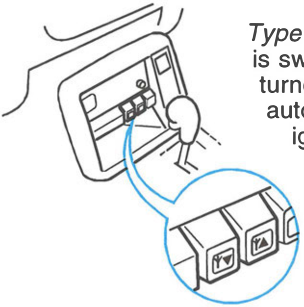
Always keep the P.I.N. in a safe but accessible place (not in your car), as this safety feature is provided as a theft deterrent. If the P.I.N. number is lost, contact your Holden Dealer. He will require proof of ownership and the Vehicle Identification Number, shown on the inside front cover of this handbook. There may be a nominal charge for this service.

Electric antenna (if fitted)

In addition to the normal external antenna, higher luxury levels have a 'diversity' antenna, which improves FM reception. The diversity antenna is incorporated in the rear window and can be noticed as lines in the glass, above the demister lines.

Type 1 On higher luxury models the switch for adjusting antenna height is directly beneath the radio. Push the end of the switch showing △ to raise the antenna, or push the ▽ to lower the antenna. Also refer separate radio instructions in the glovebox.





Type 2 The electric antenna will not operate unless the radio unit is switched on. When the radio is turned off or the ignition is turned off, the electric antenna will (after a short delay) automatically retract. When the radio is switched on and the ignition is turned to ON or ACCESSORIES the antenna will automatically extend.

In addition, it can be raised or lowered by pressing the appropriate switch.

Important: The best radio reception is gained when the antenna is fully extended.

Manual antenna (if fitted)

Pull up or push down as required. To guard against breakage, the antenna can be pushed fully down to the 'lock' position. To re-extend, insert the special key (provided in the glovebox) into the slots at the base of the antenna and pull up the top of the antenna, which can then be extended for maximum distance reception.

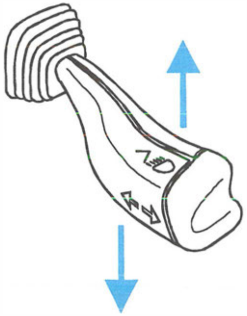
TURN SIGNALS, HORN, TILT STEERING

Turn signals

The turn signals lever is on the right side of the steering wheel column. Push the lever up to signal a left turn, down to signal a right turn.

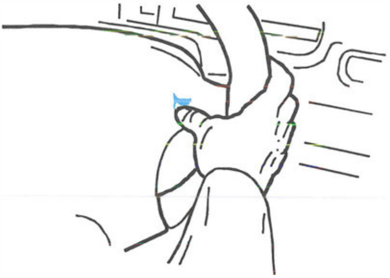
In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel will flash when the lights are in operation.



Horn

The horn is activated by pressing JUST ABOVE the 📯 symbol, located on either side of the steering wheel.

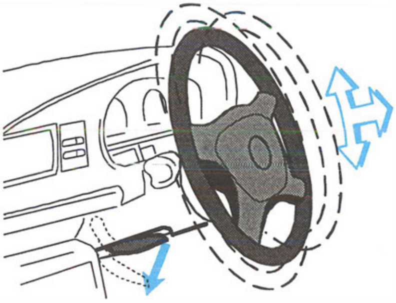


Tilt/telescopic steering (if fitted)

Move the lock lever on the left side of the steering column down.

Grasp the steering wheel and move as required. It can be moved up or down, pulled towards you or pushed away from you.

When in position, move the lock lever up. "Jiggle" the steering wheel to ensure it has locked securely before driving.



unlock

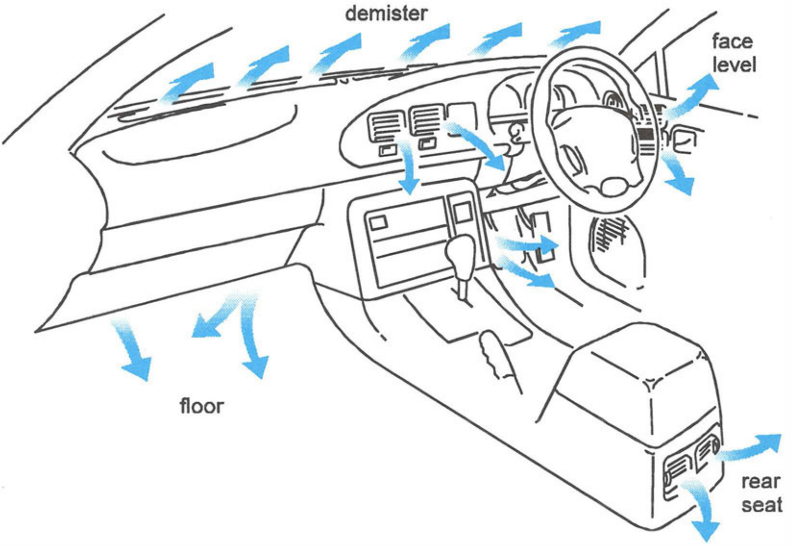
CAUTION: As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

VENTILATING SYSTEM

The car features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Outside air (except when re-circulate is selected) is drawn into the car through the opening between the bonnet and the windscreen. Do not allow this opening to become clogged with debris, such as leaves or snow. Any leaves which have entered this area should be removed each time you wash your car (recommended weekly).

Vents

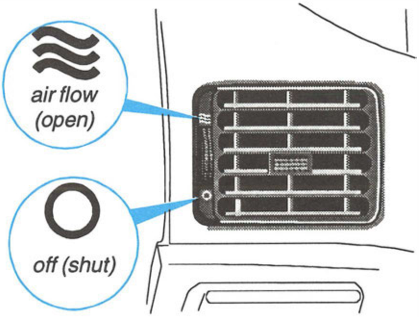
The air may be directed to different types of vents - floor, windscreen demist, door demist door face, dash face and rear seat (if fitted).



The floor and demister vents are fixed, as these direct air to the windscreen, feet and side windows in the best possible way.

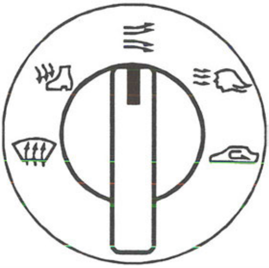
The face and rear seat vents have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

These vents have shut off doors which can also be used to adjust the air volume to suit individual comfort. For example, air flow at the centre vents can be reduced to enhance air flow at the rear seat vents.



STANDARD HEATER, AIR COND. (if fitted)

Mode dial



DEMIST. Air is delivered to the demist vents. *A small amount of air is directed to the demist vents in the front doors and under the windscreen in all positions.*

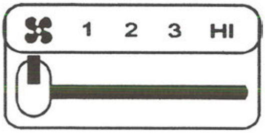
FLOOR. Air is directed to the floor vents.

BI-LEVEL. Cooler air is delivered from the face and demister vents and warmer air from the floor vents when the temperature lever is moved away from extreme cold or extreme hot. This position can be used for most winter driving.

FACE. Air is delivered from the face level vents (front door and centre dash) and the rear seat vents (if fitted).

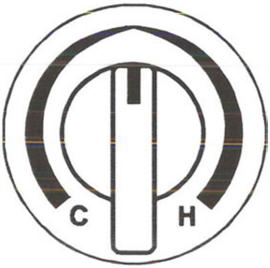
RE-CIRCULATE. No outside air is admitted. Interior air is re-circulated and directed back through the face level vents. Refer operating notes on following page.

Fan switch



The fan switch provides speed control of the blower fan in all Mode dial positions. Note that if your car has a front, bench seat then the fan switch will be in the vertical position.

Temperature dial



The temperature dial adjusts the temperature of the air entering the passenger compartment in all Mode dial positions.

Air conditioning (if fitted)

- The air conditioning is turned on when the light in the switch is illuminated. Re-press the button to switch OFF.
- The fan must be set to 1 or above for the air conditioning to work.
- When the air conditioner is switched on and the Mode dial is turned to either Bi-level or Face, air is also delivered from the rear seat vents.
- The air conditioner operates more effectively when all the windows are closed.
- Rear seat vents are provided with factory fitted air conditioning to sedans and wagons with front, bucket seats. Air conditioning fitted as an accessory (after the car was built) will not have rear seat vents, unless prior agreement was made with the Dealer.

STANDARD HEATER, AIR COND. notes

Unsealed roads

When following another car on dusty roads, or to prevent exhaust fumes or odours entering your car, select the re-circulate position on the mode dial and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the face or bi-level setting of the Mode dial (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the car will prevent any dust entry.

Air conditioning (if fitted)

Hot weather For a "quick cool down" when first entering the car on a hot day, switch on the air conditioner, turn the Mode dial to re-circulate, turn the temperature control dial to full cold and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows, as the air conditioning works more effectively with the windows up.

It is recommended selecting "face" mode and "outside air" when the interior cools down (10 to 20 minutes) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when re-circulate is selected. This can be used in slow city traffic or when the car is stationary in very hot weather. Occasionally select face or bi-level to allow outside air to enter the car.

Performance/fuel economy The air conditioner uses power from the car's engine. Therefore you will notice a small decrease in engine power, and a slight increase in fuel consumption when the air conditioner is in use. The air conditioner will automatically switch off when you fully depress the accelerator pedal, to ensure that maximum engine power is available for overtaking etc.

Cold weather If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, turn the Mode dial to demist or bi-level and select a warm setting with the temperature control dial. This will circulate warm, dehumidified air throughout the car, defogging the windows. Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Automatic transmission If your car is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N or P.

Cigarette smoke If occupants are smoking, it is recommended that the "re-circulate" position NOT be used.

Important Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes even in Winter to lubricate seals.

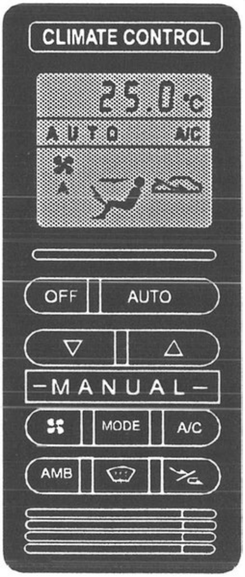
Notes Occasionally a slight hissing sound may be heard for a short time when the air conditioner switches off and pressure in the system equalises. This is normal.

When driving at high speeds the air conditioning compressor may switch off so that full engine power is available.

The system is protected by switches that guard against abnormal loads and loss of refrigerant. The compressor may switch off temporarily. Have the system checked by a Holden Dealer if this occurs.

CLIMATE CONTROL *(if fitted)*

Located to the right of the radio is the Climate Control, which maintains the interior of your car at your desired temperature.



Automatic operation

- Start the engine.
- Press (AUTO) if AUTO is not displayed.
- Use the red (warmer) or blue (cooler) arrows to adjust the temperature read-out. Try an initial setting between 22°C and 24°C.
- Allow system to stabilize for a few minutes.
- You may need to adjust the angle of the air vents to your personal requirements perhaps with the air vents pointing directly at your body or face for initial cooling, and then pointed away for a more general effect, once you have cooled down.

Once the system has stabilized, and you wish to adjust the setting, it is recommended that the adjustment be made one tap at a time (each tap is half a degree) until you are comfortable. Your comfort setting will depend on clothing, your acclimatization, and the angle at which you have directed the vents.

The system can be set anywhere between 16°C (coolest) and 30°C (warmest), but will default to 22°C if the battery is disconnected. Pressing the red arrow when 30°C is already showing causes the display to show "H" (hottest); pressing the blue arrow when 16°C is already showing causes the display to show "C" (coolest).

The setting will not change between the ignition being turned OFF or ON. Therefore, you need only change the setting when you wish to alter your comfort level.

In automatic operation the system will always respond quickly to cooling/heating requirements. It is not necessary to set a cooler/hotter temperature than required to ensure fast cooling/heating.

The system should be left on automatic operation, as it can then:

- turn air conditioning on and off
- vary the temperature of the air entering the cabin
- re-circulate interior air or take air in from outside the car
- vary fan speed
- select the vents through which the air is delivered

For example, on a cold morning, warm air will be directed to the feet vents and a small amount of air to demist. Then, as the car warms up, the system will change to bi-level and the fan will slow down.

You may need to manually adjust the angle of the vents at various times, for instance to direct cool air onto your body on hot days, or past your body when the temperature is mild.

CLIMATE CONTROL (if fitted)

Normally, there should be no need to use the manual buttons. However, automatic features can be individually overridden, if you want low fan speed, or perhaps permanent floor level.

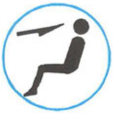
Using the manual buttons (except for (AMB)) will take the system off full automatic operation, indicated by the word MANUAL appearing on the display. Press (AUTO) to reset the system to full automatic control.

DEMIST Climate control cannot determine demist requirements. Therefore, tap this button for demisting the windscreen and side windows. It is not advisable to select re-circulation when demisting.

FAN Switches between 3 fan speeds.
In auto mode, many variations of fan speed are used. The highest possible fan speed is, however, excluded from automatic selection and may only be selected manually, with the fan speed button - tap the button until '3' is displayed.

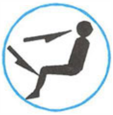
MODE

MODE Tap this button to switch between face, face and foot, or foot modes.



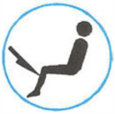
Face

Air is directed from the face level vents.



Face and foot

Cooler air is directed to the face and warmer air is directed to the feet.



Foot

Air is directed to the feet.

A/C

AIR CONDITIONING Switches air conditioning on and off. To conserve fuel, you may wish to switch off the air conditioning in cold weather. The climate control will still maintain automatic control of all other functions but will not turn the air conditioning on even if cabin temperature gets too high. Air conditioning should be switched on for at least 5 to 10 minutes each week to lubricate seals.

FRESH / RE-CIRCULATION Switches air intake to outside air or re-circulated air. Re-circulate re uses interior air and is therefore not recommended for long periods of time.
Re-circulate position should NOT be used if occupants are smoking.

AMB

AMBIENT TEMPERATURE Displays the temperature outside the car for 5 seconds. Pressing (AMB) does not take the system out of automatic mode.

CLIMATE CONTROL (if fitted)

QUICK COOL DOWN: To aid the climate control when first entering the car on a hot day, open the windows to allow the hot air to escape. After a minute or two, close the windows - the system works more effectively with the windows up.

AUTOMATIC OPERATION: Manual override of any controls can impede the efficiency of the system to achieve the set temperature. This system is designed to operate with minimum manual adjustment to achieve and maintain the selected comfort. It is also important to allow the system to stabilize before changes in comfort settings are made.

INITIAL HEAT: Remember, the heater uses heat generated in the engine. Therefore hot air is not available until the engine starts to warm up (re-circulation and *no* vents will be shown on the display at this time).

If the ambient (outside) temperature is below 20°C and heating is required the fan will not automatically switch on - until the engine starts to warm up and hot air is available. You can always manually switch the fan on while waiting for the engine to warm up, if you consider air inside the car to be stuffy. *Remember to switch back to AUTO.*

However, if the ambient temperature is *above* 20°C and heating is required, air will gently issue from the vents, getting warmer as the engine warms up.

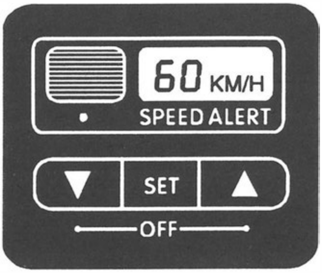
OFF BUTTON: To switch the climate control completely off, press (OFF). The fan and air conditioning will be switched off and the system will only admit flow through, outside air. The flow through air can also be turned off/on by pressing (⟲). Remember, re-circulation is not recommended for long periods of time. Press (AUTO) to turn the climate control system back on.

DEMIST "BLEED": A small air flow from the demist vents is provided in all modes.

UNSEALED ROADS (PREVENTION OF DUST ENTRY): When following another car on unsealed roads (and the dust is airborne) it is recommended that re-circulation be selected. However, if the dust is not airborne it is recommended that the setting be on outside air (re-circulation off) and that the fan be on a high speed. This will build up positive air pressure and so prevent any dust entry. Ensure in both cases that all windows are closed.

ENGINE IDLING: If your car is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N (neutral) or P (park).

SPEED ALERT (if fitted)



Speed alert will warn you when you have exceeded a preselected speed. For example, you can set it to warn you when your speed has exceeded 60 km/h in a 60km/h zone.

Cars fitted with "trip computer" have a speed alert function incorporated in the trip computer, refer page 1-28.

Off and on

- Speed alert is *off* when "- -" is displayed; speed alert is *on* when a speed is displayed.
- To turn *on*, press any of the buttons.
- To turn *off*, press the ▲ and ▼ buttons simultaneously.
- Speed alert works between 20 km/h and 195 km/h.

Adjusting warning speed

- Speed alert is adjustable in units of 5 km/h.
- ▲ and ▼ buttons can be either held down to scroll quickly, or tapped to adjust speed in steps.
- If SET is pressed the warning speed is changed to the current car speed, provided speed is between 20 and 195 km/h.

Four commonly used warning speeds

Four preset warning speeds are provided: 60, 80, 100 and 110 km/h. Press SET and ▲ for the next highest preset, or SET and ▼ for the next lowest preset.

Adjusting commonly used speeds

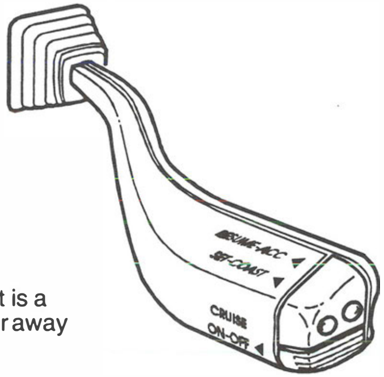
The four commonly used speeds can each be adjusted:

- Press SET while turning the ignition on. The display will show the 'preset' number. Then, after 2 seconds, the display will show the assigned speed
  e.g. P 1, then 60 km/h.
- Press ▲ or ▼ to adjust the speed.
- When desired warning speed is displayed, press SET button to change to the next preset and adjust in the same way.

  Note: Pressing SET locks the speed into memory and also tabs between presets.
- Press ▲ and ▼ simultaneously when you have finished adjusting all the speeds.

There is a manufacturing tolerance of 5 km/h between the speed alert warning and the speedometer gauge reading.

CRUISE CONTROL *(if fitted)*



The cruise control maintains your car's speed without you having your foot on the accelerator pedal.

The cruise control lever is on the right side of the steering column. The lever has two switches.

The ON/OFF switch is at the *bottom* of the lever and is activated by pushing in towards the direction of the steering column.

The top part of the switch is used to adjust speed. It is a two part switch which can be *rocked* either towards or away from you.

Note the raised dimple when the adjustment switch is rocked away from you. This is the RESUME-ACC position, which is used to increase speed and to resume last set speed.

Note the depression in the adjustment switch when it is rocked towards you. This is the SET-COAST position, which is used to decrease speed and to set initial speed.

TO SET INITIAL SPEED:

1) Ensure the CRS symbol on the instrument panel is showing (if necessary, press the ON/OFF switch). This indicates that the cruise control is ready for use.
2) Press the accelerator pedal until travelling at your desired speed, (above 40 km/h) and then momentarily rock the adjustment switch towards you, to the SET-COAST position. You may now release both the accelerator pedal and the switch, as the cruise control is now maintaining speed.
3) Note the ON symbol next to the CRS symbol on the instrument panel is now showing.

TO ADJUST YOUR SET SPEED you may either:

- Rock the adjustment switch towards you to the SET-COAST position until the car coasts down to the desired speed, then release.

or

- Rock the adjustment switch away from you to the RESUME-ACC position until the car accelerates up to the desired speed, then release.

Minor changes in speed (1.6 km/h) can be achieved by *momentarily* rocking the adjustment switch; either away from you or towards you. When slowing speed, remember that the cruise control is not designed to operate under 40 km/h.

CRUISE CONTROL (if fitted)

TO RELEASE THE CRUISE CONTROL you may either:

Press the ON/OFF switch. This will deactivate the whole system and wipe clear any speed memory.

or

Press the brake pedal. This will deactivate the cruise control (the ON symbol will turn off) but retain the speed in its memory. To regain the memory speed you have only to momentarily rock the adjustment switch to the RESUME-ACC position, provided you are travelling over 40 km/h. Holding in the RESUME-ACC position for longer than one second will clear the memory and set the speed to the current vehicle speed.

WARNING

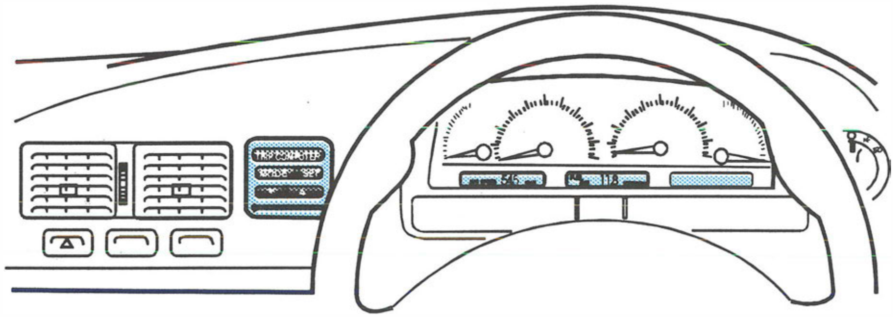
Do not use the cruise control when road or driving conditions could require varying speeds. A constant speed may not be practical in heavy or varying traffic, or on winding, slippery or rough roads.

Remember that when both the 'CRS' and the 'ON' symbols are showing the cruise control is maintaining your speed. Taking your foot off the accelerator pedal will not reduce speed. To deactivate the cruise control you must either press the brake pedal or push the ON/OFF button.

The cruise control will not apply the car's brakes. Therefore the car may gain speed when going down steep hills.

When climbing steep hills (particularly when towing) it is possible for the car to lose speed. You may need to switch off the cruise control and instead use the accelerator pedal.

TRIP COMPUTER (if fitted)



The switches for the trip computer are on the dash, to the left of the gauges. The read-out display is located in 3 windows, directly beneath the gauges.

When the ignition is turned on, the display will show the same group of functions as when it was turned off.

There are three groups of displays. Tap (MODE) to change between the three groups.

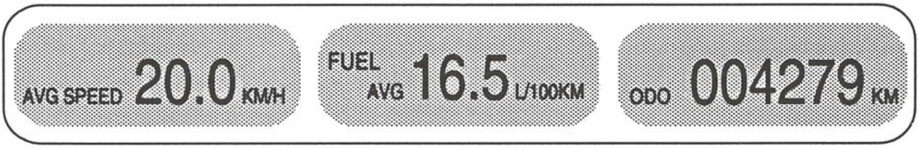
The trip computer can be reset at any time, however, the following is considered normal practice:

- At each tank refill. The trip computer will then give you results that are averaged out over each tank full of fuel.
- At the beginning of a journey. This might involve many tank refills and results will then be computed over the total journey.

To reset the computer, hold down (SET) and press (MODE). This will reset all functions, with the exception of DISTANCE TO EMPTY, OVER SPEED WARNING setting and the ODOMETER.

NOTE: If the wrong switches have been accidentally pressed, causing the display to show other than the normal readings, turn the ignition OFF, then ON again (when the car is stationary).

TRIP COMPUTER


AVG SPEED 20.0 KM/H
FUEL AVG 16.5 L/100KM
ODO 004279 KM

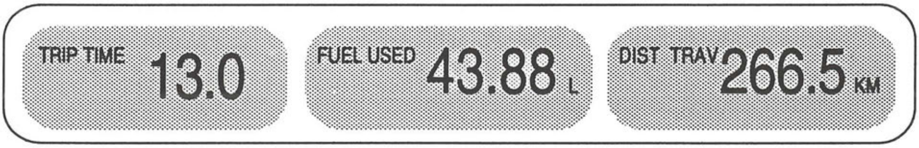
Shows the average speed (while the ignition was ON) since the trip computer was reset.

Shows average fuel used since the trip computer was reset, in litres per 100 km.

After resetting, some large numbers may initially be shown, due to the short distance travelled and the high fuel consumption when accelerating.

The ODOMETER records kilometres travelled since the car was built.

PRESS MODE BUTTON


TRIP TIME 13.0
FUEL USED 43.88 L
DIST TRAV 266.5 KM

Shows "ignition on" time since the trip computer was reset.

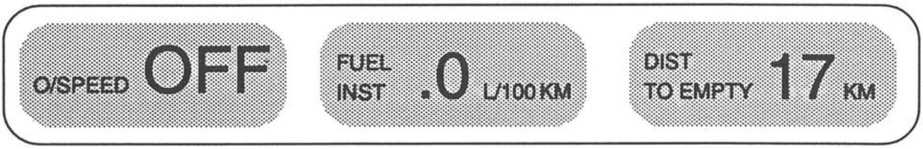
Shows the total litres of fuel used since the trip computer was reset.

Shows the distance travelled in kilometres since the computer was reset.

Tap SET twice in succession when DISTANCE TRAVELLED is displayed to reset reading to zero. This will not alter any other readings.

PRESS MODE BUTTON

TRIP COMPUTER cont.



The SPD symbol on the instrument panel will illuminate when vehicle speed exceeds the speed set on the trip computer.

This function is turned off and on by tapping (SET) twice in succession when OVER SPEED is displayed.

Adjust the setting when OVER SPEED is turned on and displayed on the trip computer. Press (▲) to increase, or (▼) to decrease. Display is adjustable in 5 km/h units.

There is a manufacturing tolerance of 5 km/h between the over speed warning and the speedometer gauge reading.

Shows instantaneous fuel usage in litres per 100 km.

DISTANCE TO EMPTY is an estimate on previously obtained information. Therefore, as conditions become more suited to economical driving the DISTANCE TO EMPTY can actually increase, for example, from city to highway driving.

Calibration numbers

The trip computer uses in its calculations three separate calibration numbers. These figures are preset for the standard car, and do not have to be adjusted. However each car does vary due to tyre size, tolerances etc., and therefore the facility is provided to adjust these figures for greater accuracy. See your Holden Dealer if you wish to have the calibration numbers adjusted.

GLOVEBOX, BONNET

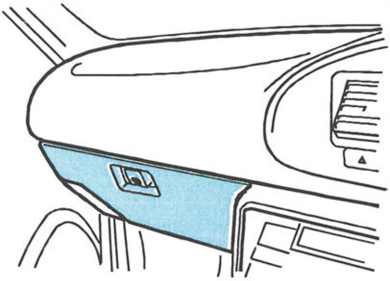
Glovebox

A glovebox is provided on the passenger side of the instrument panel.

A specific key (metal head) is provided solely to lock/unlock the glovebox. For security, the master key is designed not to operate the glovebox lock. Refer page 2-2 for more information on keys.

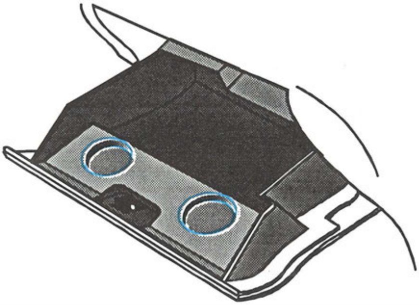
To lock, insert the glovebox key, turn clockwise and then withdraw. To unlock, insert the glovebox key and rotate anti-clockwise.

To open, squeeze the two slides of the catch together and pull towards you. To close, push lid firmly back into place.



Cupholder

Cupholders are provided inside the glovebox lid.

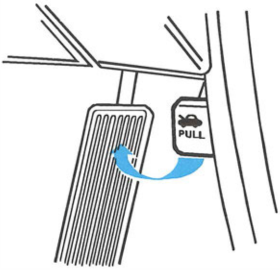


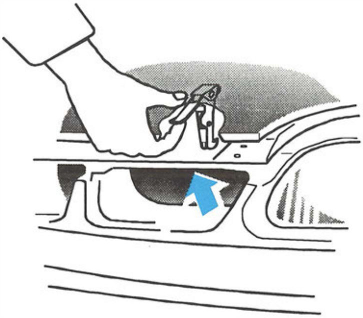
Bonnet

From inside the car, pull the lever shown towards you.

This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the centre of the bonnet and move safety catch upwards. Hold in this position and raise the bonnet.

After you have partially lifted the bonnet, gas struts will automatically take over, to lift and hold the bonnet in the fully open position. For closing, simply pull the bonnet down and push firmly back into place.





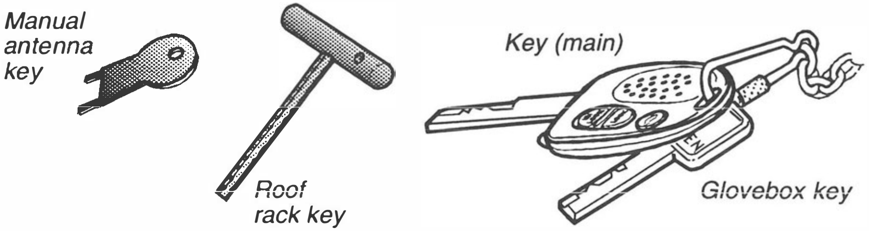
CHAPTER 2

Locks

Page

2-2 Keys
2-4 Electric door locks
2-5 Child safety rear door lock
2-6 Alarm system (if fitted)
2-8 Ignition lock
2-9 Boot lock
2-10 Tailgate lock

KEYS



Manual antenna key (for cars without electric antennas)

To guard against breakage, the manual antenna can be pushed fully down. To extend the antenna again, insert the antenna key in the antenna slots and pull the antenna up.

Roof rack key (wagons)

If your car has a roof rack, a key is provided to adjust the crossbars and tie-down anchors. The key is originally placed inside the glovebox of your new car. See page 10-3 for information about roof racks and adjustment of the crossbars.

Glovebox only key

The glovebox key locks and unlocks the glovebox. This key can usually be kept in the unlocked glovebox. Then, when leaving your car and master key with a car park attendant you can lock valuables in the glovebox, and take the glovebox key with you.

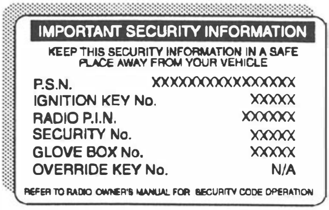
Key (main)

This key operates all locks and ignition, except for the glovebox.

With normal use the lithium battery in the key should last more than 5 years. A weakening battery is indicated by a progressive "loss of range", which means you must be closer to the car when pressing the key. Originally the key should have a range of 5 metres. *Tinting the car's windows will reduce the range of the key if the tinting material has a metallic film.*

Key numbers - security card

The security card lists various security numbers for your car, including key numbers, and the radio PIN. Please keep the card in a safe place, away from your car. If a key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number, security number and providing proof of ownership.



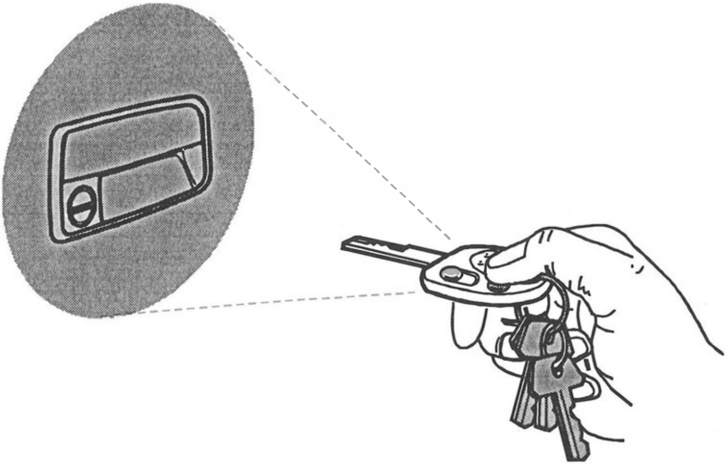
IMPORTANT SECURITY INFORMATION

KEEP THIS SECURITY INFORMATION IN A SAFE
PLACE AWAY FROM YOUR VEHICLE

P.S.N.	XXXXXXXXXXXXXXXX
IGNITION KEY No.	XXXXX
RADIO P.I.N.	XXXXXX
SECURITY No.	XXXXX
GLOVE BOX No.	XXXXX
OVERRIDE KEY No.	N/A

REFER TO RADIO OWNER'S MANUAL FOR SECURITY CODE OPERATION

KEYS



When pressing the key buttons ensure that other keys on the key ring are not between the main key and the car. Other keys can obscure the signal being transmitted to the car.

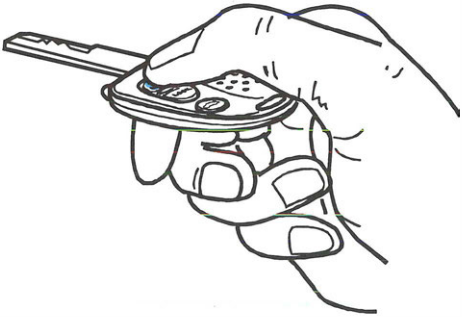
DOOR LOCKS

Unlock

Press the UNLOCK button on the key within 2 metres of the car. The turn signals will flash twice.

If UNLOCK is pressed once, only the driver's door will unlock. If UNLOCK is pressed a second time, or is held down for more than half a second, all the doors (and wagon tailgate) will unlock.

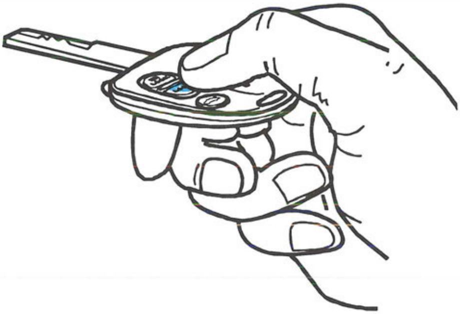
If you prefer to have all doors unlock with a single press, the above 'two stage unlock' feature can be changed to 'all unlock' by computer, at your Holden Dealer.



Lock

Press the LOCK button on the key within 2 metres of the car to lock all doors (and the wagon tailgate).

The turn signals will flash once when the car is being locked. Doors are locked when the lock knob is down.



Deadlock

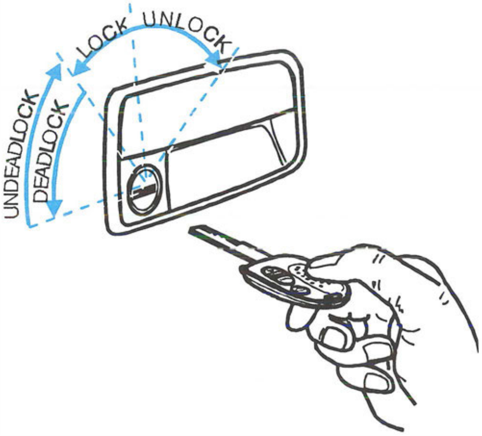
For further protection when leaving the car, you can 'deadlock' the doors.

Turn the key in the driver's door fully anti-clockwise and remove at the horizontal position.

This electronically jams all the electric locks so that no door can be opened, even if entry is gained by breaking glass.

CAUTION: Do not use deadlock if there are people in the car. The doors cannot be unlocked from inside.

Deadlock can only be set and un-set by turning the key in the door lock. Pressing UNLOCK on the key will not un-set the deadlock - the key must be turned in the driver's door lock.



DOOR LOCKS

Notes

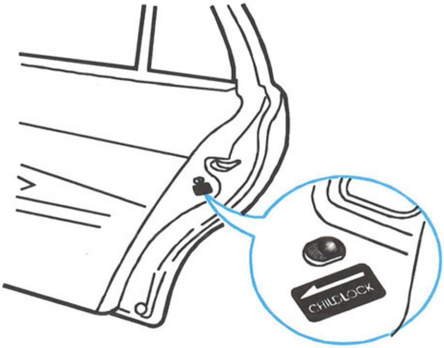
- The LOCK, UNLOCK and 🚗 buttons may not work near high radio activity, for-instance under TV towers. If this happens, the doors can be locked and unlocked by turning the key in the door lock.
- If the car has an alarm system: then the alarm can be disabled by turning the key in the ignition to the ON position.
- Pushing down the driver's lock knob will lock all doors; pulling up the driver's lock knob will unlock all doors.
  Pushing down the lock knobs on the passenger doors will lock *only that door*; pulling up the lock knob on the passenger doors will unlock *all the doors.*
- Each passenger door may be locked behind you by depressing the lock knob when the door is open, then shutting the door firmly. It is not necessary to hold the handle up when shutting. The driver's lock knob, however, cannot be depressed when the door is open, thus preventing the driver from being accidentally locked out.
- All doors can be locked from outside the car by using the key in the front door lock. Turn the key towards the rear of the car to lock all doors, towards the front of the car to unlock.
- Berlina and Calais models: The door lock system has been designed to make the car's horn "chirp" if it detects a fault in the lock system when the LOCK button is pressed. You should check to see that the doors have locked.
- Models except Berlina and Calais: The door lock system has been designed to flash the turn signals when the car is being locked with the LOCK button. If this does not happen it indicates a fault in the lock system and you should check that the doors have locked.
- If pressing the buttons on the key does not lock and unlock the doors, the battery inside the key may be flat. Turn the key in the ignition to ON, then OFF again and remove. Try pressing LOCK on the key again. If it still does not work a replacement key may be needed.

Rear "child proof" door locks

"Child safety locking" helps prevent rear doors from being accidentally opened by small children in the car.

When the lever is in the lock position (to the front of the car) the rear door cannot be opened from the inside. It can be opened only from the outside.

CAUTION: For safety, you should always check that the lock is operating correctly (after setting) by trying to open the door from inside the car.



ALARM *(if fitted)*

Switching on and off

The alarm system is turned on when the (LOCK) button on the key is pressed, and turned off when (UNLOCK) is pressed. Therefore, locking the doors by pressing (LOCK) not only locks all the doors but (after a 10 second time delay) also sets the alarm system.

When set off

The alarm is triggered when any of the doors, bonnet or boot are opened or a `hot-wire' attempted....... an alarm will sound and lights will flash.

To turn it off: - press (UNLOCK) on the key

or

- turn the ignition to ON

or

- allow the alarm to time out and reset itself, to guard against further break-in attempts.

'Break-in'

The exterior turn signals should flash twice when returning to your car and pressing (UNLOCK) on the key.

If they flash three times an attempted break in has occurred whilst the car was armed.

If you wish to find out what set the alarm off, carefully watch the security light.

2 flashes~pause~2 flashes: bonnet
3 flashes~pause~3 flashes: boot
4 flashes~pause~4 flashes: passenger door (either front or rear)
5 flashes~pause~5 flashes: driver's door
6 flashes~pause~6 flashes: hot wire was attempted
7 flashes~pause~7 flashes: hot wire was attempted

To cancel the flashing code, turn the ignition with the key to ON, then OFF again.

ALARM (if fitted)

Notes

- Remember, the alarm system is turned off and on when the (UNLOCK) and (LOCK) buttons on the key are pressed. When the alarm system is switched ON, turning the key in the lock and then opening the doors or boot will trigger the alarm. The alarm system thinks a break-in has occurred.
  When the alarm system is turned on you may however open the boot by pressing (🚗) on the key. This will not set off the alarm, but instead will leave the alarm system on and undisturbed.
  Closing the boot will "re-arm" the boot alarm.

- Remember that the deadlock feature will not be activated if you press (LOCK) to lock the car and set the alarm. Deadlock can only be set by turning the key to the horizontal position in the driver's door lock. Likewise, pressing (UNLOCK) cannot unlock the car when the deadlock is set. On returning to the car you must turn the key clockwise in the driver's door lock to deactivate the deadlock and you must also press (UNLOCK) on the key to deactivate the alarm.

- Turning the ignition to ON with the key can also turn the alarm system off. This can be useful if the battery inside the key is flat (or if parked under TV towers).
  Therefore, if returning to an armed car and the battery inside the master key is so flat that pressing the (UNLOCK) button will not unlock the car:
  - turn the key in the door lock barrel to unlock the door (the alarm will trigger when the door is opened)
  - then turn the key in the ignition (this will turn off the alarm and reconnect the ignition).

- The (LOCK) button on the key will not function when the ignition is turned ON. The (🚗) button, however, will function at all times, except when the car is moving.

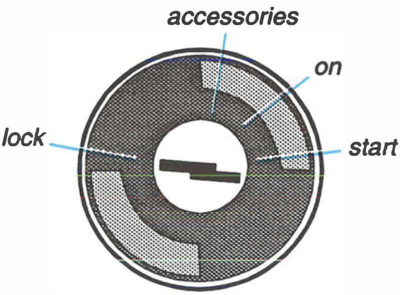
- Pressing (LOCK) on the key:
  - locks all doors
  - sets the alarm (after 10 seconds)
  - switches the interior dome light off, if already on
  - withdraws the antenna
  - flashes the exterior turn signals once
  - deactivates the power windows

  Pressing (UNLOCK) once on the key:
  - unlocks the driver's door
  - switches off the alarm
  - switches on the interior dome and power windows for a short time
  - flashes the exterior turn signals twice

  Pressing (UNLOCK) a second time (or keeping the (UNLOCK) button depressed)
  - unlocks all the other doors

IGNITION LOCK

CAUTION: Do not turn the engine off while the car is moving or there will not be any power assist for brakes or steering. Never remove the key while the car is moving, as this will lock the steering.



Lock

Accessories, electricals and engine are off.

The key is inserted and removed only from the LOCK position.

For your car's protection the engine is automatically disabled 30 seconds after turning the key to the LOCK position, indicated by the flashing light on the dash.

In addition, the steering is automatically locked when the key is removed. To release the steering lock and reconnect the engine, re-insert the key and turn it clockwise.

If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

Accessories

The engine is not running but accessories such as the radio and wipers still operate.

On

The engine is ready to start and all electrical systems are active. Note the warning lamps (refer pages 1-6 to 1-8) which are designed to illuminate at the ignition ON position, to indicate the systems are working. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

Start

This is the position for starting the engine. The key should be released from this position as soon as the engine starts. It will then automatically return to the ON position.

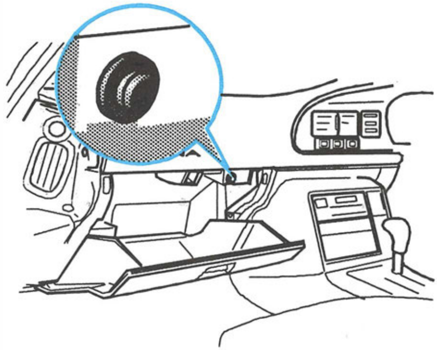
If you have trouble starting the engine and the security light is still flashing refer Chapter 6 *Emergencies*.

BOOT LOCK

To unlock, turn the key clockwise in the boot lock. After partly opening the boot lid, gas struts will automatically take over to lift and hold the boot lid in the fully open position. The boot re-locks automatically when pushed shut.

Button release (if fitted)

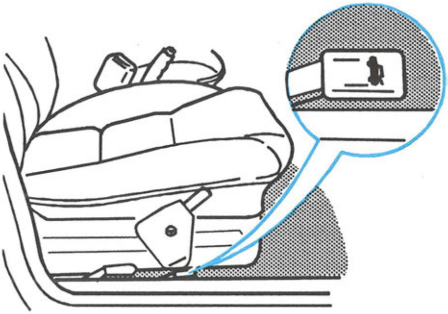
Push the button in the glovebox to unlock the boot. Then from outside, lift up the boot lid.



Lever release (if fitted)

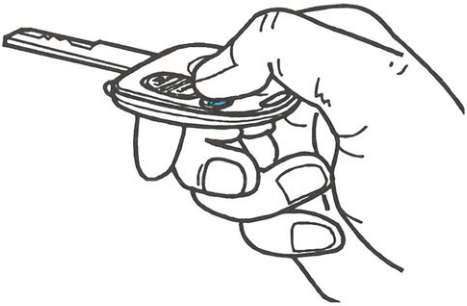
Alternatively, some models have a boot release lever on the floor, to the right of the driver's seat.

Pull the lever up to release the boot.



Key release (if fitted)

The boot may be opened by pressing (for more than half a second) 🚗 on the key, provided you are not travelling over 5 km per hour.

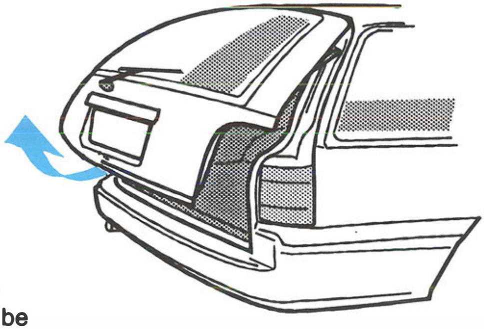


TAILGATE LOCK

Wagon

CAUTION: To prevent dangerous exhaust fumes entering the car the boot or tailgate should be closed when the engine is running. However, if it is necessary to leave the boot or tailgate open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up; switch heater controls to "fresh" and set fan to highest speed.

The tailgate is locked when the doors are locked, and unlocked when all the doors are unlocked.



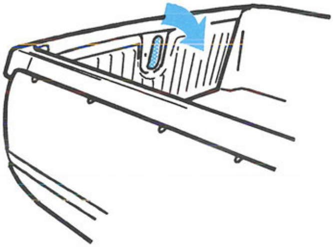
To open: When unlocked, push the tailgate button. After partly opening the tailgate, gas struts will automatically take over to lift and hold the tailgate in the fully open position.

The tailgate *can* be unlocked with the master key. However the key cannot be withdrawn while it is unlocked - you must turn the key back to the upright (lock) position in order to withdraw the key. This ensures that the tailgate will be locked when the doors are locked.

Ute

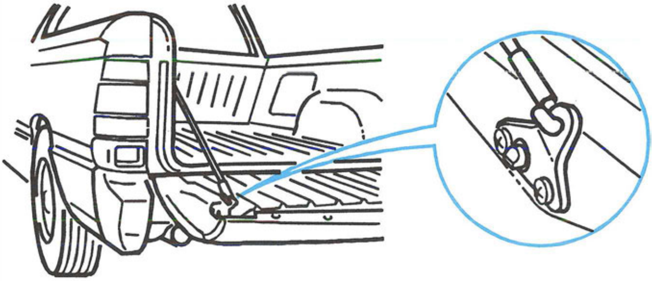
To lower: Reach inside, at the middle of the tailgate and move the lever to the left.

To close: Lift up the tailgate and push firmly back into place.



The tailgate support cable can be disconnected, if required.

However, when reconnecting the cable, ensure that each hook is pointing outwards as shown.



NOTES

CHAPTER 3

Know your car

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3-10 Child restraints
3-12 Mirrors
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3-14 Assist grips
3-14 Reading lights
3-14 Ute tonneau cover
3-15 Cigarette lighter & ashtrays

WINDOWS

Manual windows

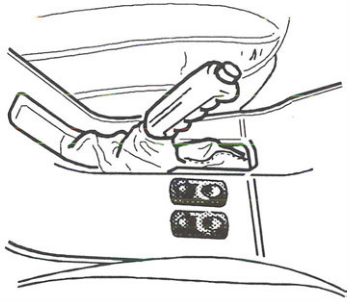
The door windows are lowered or raised by turning the winders fitted to each door.

Electric - 2 window (if fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when the system is active.

The controls for the windows are fitted between the front seats.

To raise the window, push raised section. To lower, push indented section.



"Auto down" - driver's window only

Depress the down button for more than half a second and remove your finger. To interrupt the "auto down" press the up button, or tap the down button again.

"Tap" the down button to open the window in short steps.

Time delay

Both windows can be operated for 1 hour after the ignition has been turned off ...provided the doors are kept closed. If a door is opened the time is reduced to 45 seconds. The green "active" light on the buttons will go off when the time delay finishes.

Pressing (LOCK) on the car key, will immediately deactivate the windows.

Pressing (UNLOCK) on the car key, will enable the windows to be operated for 45 secs.

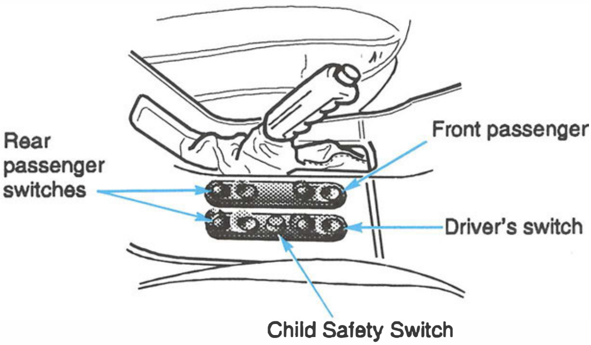
WINDOWS

Electric - 4 window (if fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when they are active.

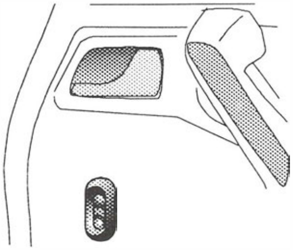
The controls for the windows are fitted on the console, between the front seats.

To raise the window, push the raised section, to lower, push the indented section.



Rear windows can also be operated by individual switches located on the rear doors.

These *rear door* switches can be deactivated / reactivated by pressing the “child safety” switch in the centre console. Note that the centre console switches for the rear windows will still be active.



“Auto down” - driver's window only

Depress the down button for more than half of a second and remove your finger. To interrupt the “auto down” press the up button, or tap the down button again.
”Tap” the down button to open the window in short steps.

Time delay

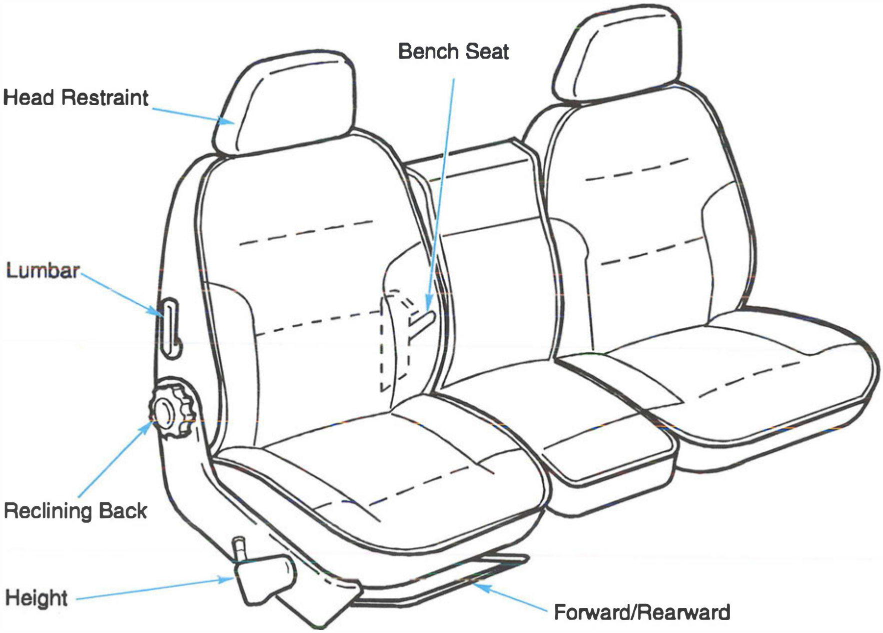
The windows can be operated for approx. 1 hour after turning off the ignition, provided all the doors are kept shut. Once a door is opened, the windows can only be operated for 45 seconds. The green “active” light on the buttons will go off when the time delay finishes.

Pressing (LOCK) on the car key, will immediately deactivate the windows.

Pressing (UNLOCK) on the car key, will enable the windows to be operated for 45 secs.

FRONT SEAT

Note that this illustrates all seat combinations; different features vary between models.


Bench Seat
Head Restraint
Lumbar
Reclining Back
Height
Forward/Rearward

FRONT SEAT

Height adjustment (if fitted)

Extend the telescopic lever on the right side of the seat, and then rotate the lever either up or down, as required.

Lumbar support (if fitted)

Move the lever (on the door side of the seat) to alter support given to the lower part of your back. There are four positions: horizontal for full support, two intermediate positions, and vertical for least support.

Reclining back

Turn the large toothed wheel on the door side of the seat. The seat back will move in the same direction as the top of the wheel.

CAUTION: To avoid reducing the effectiveness of seat belts, seats should only be semi-reclined when the car is moving. The fully reclined position should only be used when the car is stationary.

Forward and rearward (if fitted)

Lift up the bar at the front of the seat, then slide the seat forwards or backwards. Release the bar. Try to move the seat back and forth to check that the catch is fully engaged.

Do not adjust the driver's seat when the car is moving, as the seat could move suddenly, causing the driver to lose control.

Head restraint

This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in a car accident. To adjust the height of the head restraint, pull up or push down, as required.

Bench seat (if fitted)

The middle section of the seat may be used in 2 positions; either upright or folded down for an armrest.

To fold down, reach in between the driver's seat and the middle seat. Move the lever forward and fold the back of the seat down. To regain use of the middle seat, simply push firmly back into the upright position.

REAR SEAT

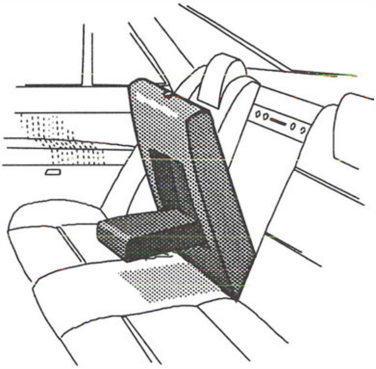
Sedan

The middle section of the rear seat may be folded forwards to gain access to the boot area or for carrying long, awkward loads.

To fold the middle section forward, pull up the lock button at the top of the middle section.

To return to the upright position, simply push back into place and check to ensure the lock button is engaged.

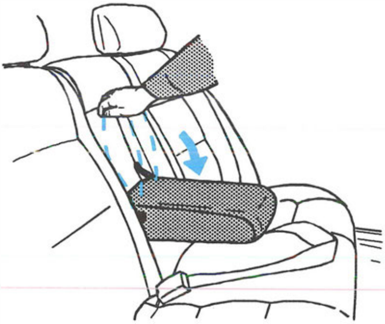
In addition, Berlina and Calais models have an armrest provided in the middle section. To fold down the armrest, insert your hand at top of the armrest and pull down. Push up armrest if upright position is required.



Wagon

Berlina wagon models have an armrest provided in the middle of the rear seat. To fold down the armrest, insert your hand into the top of the armrest and pull down. Push up armrest if upright position is required.

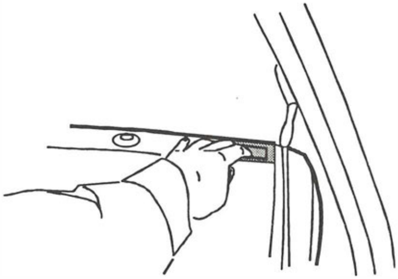
The armrest should always be tucked back up into the seat-back when folding the seat-back forwards, see following page.



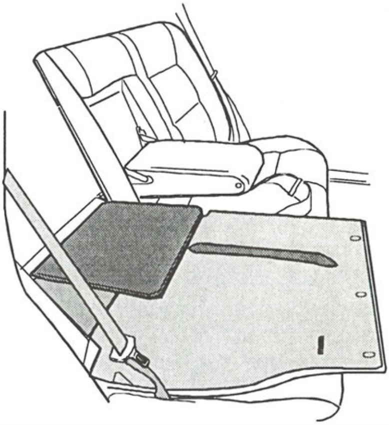
WAGON REAR SEAT FOLD DOWN

To fold down a section:

1. Remove the head restraints (if fitted) by pushing in the locking clips and pulling up.
2. Push down the lock button located on the upper edge of the seat.



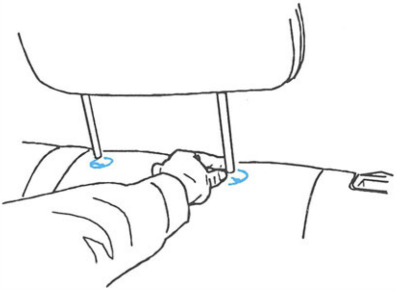
3. Pull the seat-back forward and down.
4. Apply pressure to the seat-back and the safety flap will lock into its correct position.



The rear seat is divided into two sections. Either section or both sections may be folded down.

To return the rear seat to its normal position, first press down on the leading edge of the seat back and release the safety flap. Then raise the seat to the upright position. Ensure that the seat back is secured firmly in place and that the seat belts are free.

Replace the head restraint by pushing in the locking clips located where the head restraint slots into the seat-back.



CAUTION: To avoid injury from passing cars, always avoid standing on the right hand side of the car (if the car is parked at the kerb) when converting the rear seat.

SEAT BELTS

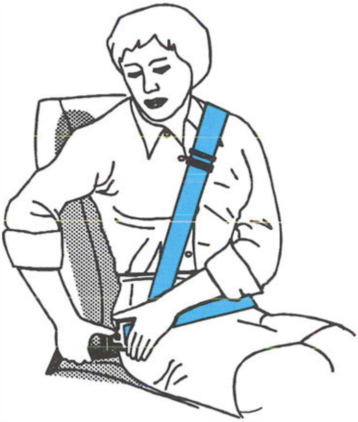
Retractor belts

To fasten, pull the metal tongue across your body and clip into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the belt is free from twists and is fitting firmly.

The "emergency-locking retractor belt" allows you to move while the car is travelling normally but will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.



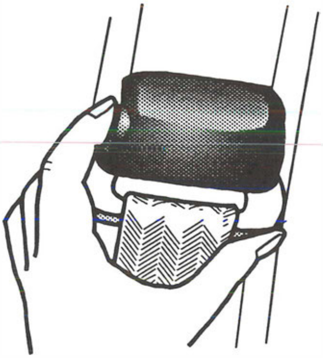
Shoulder height adjust (if fitted)

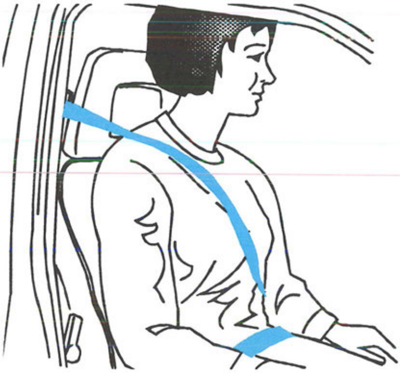
The seat belt is anchored to the car near your shoulder. The position of anchorage can be moved to 5 different heights.

To adjust, hold the button fully in while moving. Release button at required position and ensure anchor has clicked into position.

Short people should select a low anchor position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt fits on the shoulder.

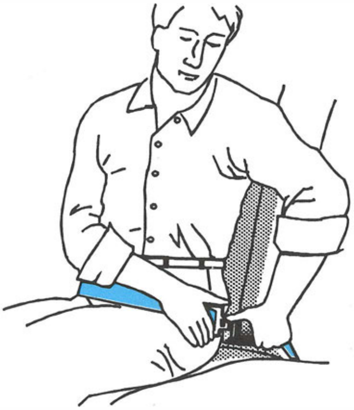
For your safety, the driver's side shoulder anchor should not be adjusted while the car is in motion.





SEAT BELTS

Non-retract, lap belts



To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

CHILD RESTRAINTS

- Children should be restrained at all times when travelling in a car.
- Infants unable to sit up by themselves should be carried in an approved infant restraint. Check with your local Infant Welfare Centre for availability. Always ensure that the seat belt fits firmly around the infant restraint.
- Children able to sit up should be restrained with regular seat belts or an approved child seat.
- If a child can't see out of the window, don't raise him/her by means of an ordinary cushion. It will not stay in place in a crash and the child can slip out of the straps and become entangled.

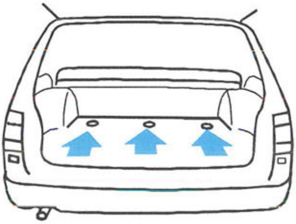
WARNING:

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

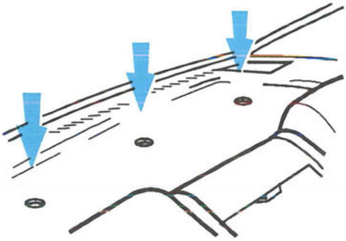
If your car is fitted with a passenger's side air bag, also refer to caution on page 6-15.

Your car is fitted with anchorage points for child restraints.

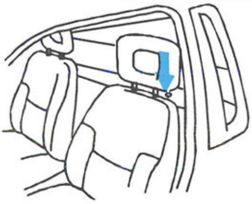
WAGON - behind the rear seat



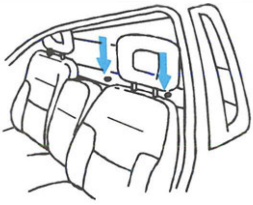
SEDAN - on the rear window ledge



UTE WITH BUCKET SEATS - behind the passenger seat



UTE WITH BENCH SEAT - behind the middle and passenger seats



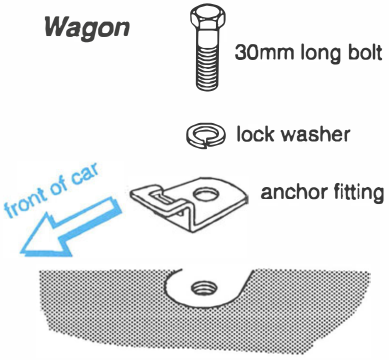
ANCHOR FITTINGS

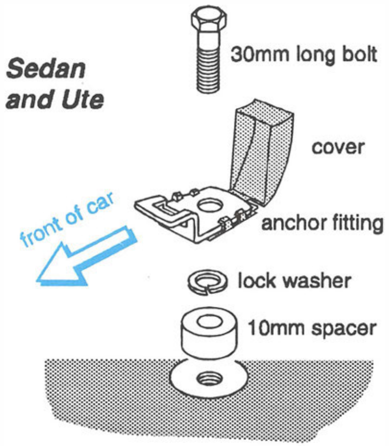
One anchor fitting is already installed in your car, in one of the anchorage points shown on the previous page.

The illustrations below show how to install additional anchor fittings to the other anchorage points. These can be purchased from your Holden Dealer.

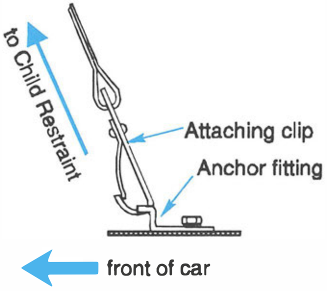
These illustrations are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). These illustrations are *not* applicable to earlier child restraints, as these restraints may not attach securely to this type of anchor fitting.

Wagon only: If the child restraint anchor bolt is removed (or is shifted) from the floor, the hole must be effectively sealed to prevent exhaust gases entering the car's interior. Either another suitable bolt or the plug originally fitted in the hole should be used.


Wagon
30mm long bolt
lock washer
front of car
anchor fitting


Sedan and Ute
30mm long bolt
cover
front of car
anchor fitting
lock washer
10mm spacer

Typical Child Restraint Anchor Fitting and Attaching clip

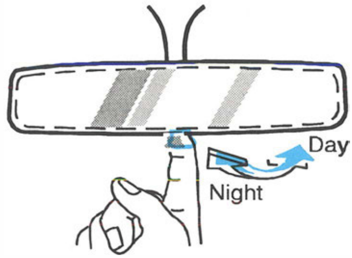

to Child Restraint
Attaching clip
Anchor fitting
front of car

MIRRORS

Internal rear vision mirror

Moving the lever on the lower edge of the mirror reduces headlight glare from following cars when driving at night.

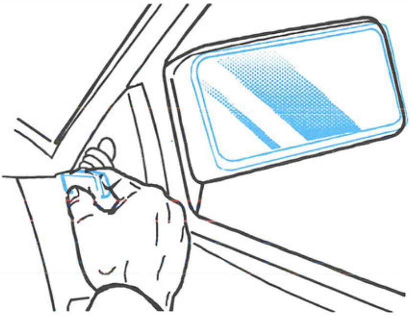
During daylight driving, the lever should be set forward, away from the driver. At night, flick the lever towards the driver.



External manual mirrors (if fitted)

Mirror angle is adjusted by moving the stalk on the inside of the door.

The left mirror is convex shaped, to provide a wider view. Note that objects will appear further away than they actually are.



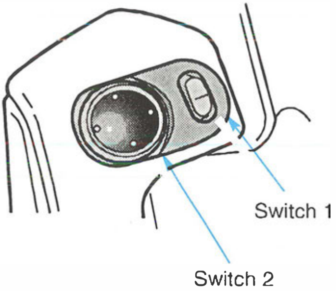
External electric mirrors (if fitted)

Mirror angle can be adjusted using the switches on the driver's door armrest, when the ignition is turned ON.

Rock *switch 1* to left mirror, or right mirror.

Press the dot on the edge of *switch 2* in the direction you wish the mirror to move. The mirror can move up, down, left or right.

The left mirror is convex shaped, to provide a wider view. Objects will appear further away than they actually are.



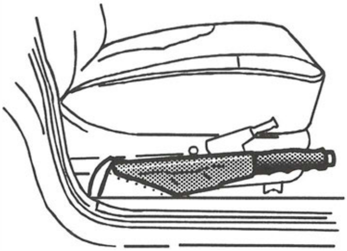
PARK BRAKE, FOOTREST, FUEL

Park brake

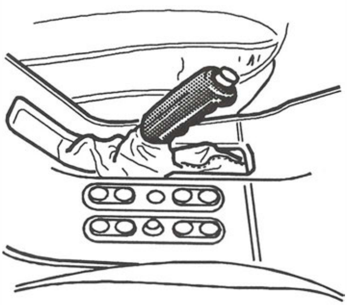
The park brake lever is on the right of the driver's seat (with bench seat) or between the front seats (with bucket seats).

- To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.
- When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the park brake is applied.
- NEVER drive the car with the park brake applied.
- IF A WARNING CHIME IS FITTED. If you attempt to drive off without releasing the park brake an audible warning chime will be heard. When driving, this will repeat every minute until the park brake is released.

Bench Seat



Bucket Seats



Footrest

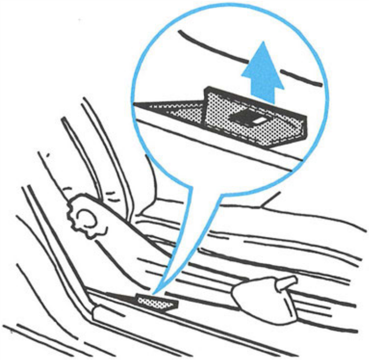
The footrest for the driver's left foot is adjustable to three places, on some models. First undo the two screws on the right hand side of the footrest. Move the footrest forward or backward as required, then replace the screws. If you have any problems with this adjustment, your Holden Dealer will be happy to assist.

Fuel filler release (if fitted)

Pull up the release lever on the floor, to the right of the driver's seat.

If your car is not fitted with a release lever beside the seat, then simply pull the fuel filler flap open from outside the car.

Refer to Chapter 5 when refuelling.

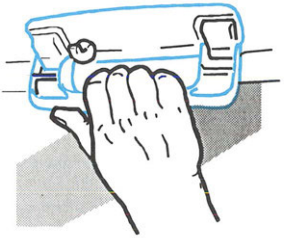


GRIPS, INTERIOR LIGHTS, TONNEAU

Folding assist grips (if fitted)

Assist grips are provided in the roof, above passenger doors.

If your car is fitted with the spring loaded type, they will tuck back into place when released.



Reading lights (if fitted)

The rear reading lights may be individually turned to OFF, ON or to DOOR. If DOOR is selected, then they will operate in conjunction with the centre dome light, refer page 1-10. Front reading lights may be switched ON or OFF, as required.

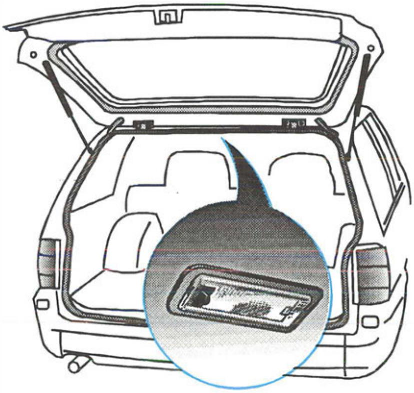
Wagon rear compartment light

The light for the rear compartment can be switched to three positions.

The centre switch position is the OFF position, i.e. the light will be permanently off.

The two outer switch positions are the same; they are both 'tailgate' positions. The light will come on whenever the tailgate is open.

The OFF position is provided for such times when it is desirable to have the tailgate open for a long period of time, without flattening the battery from having the light on

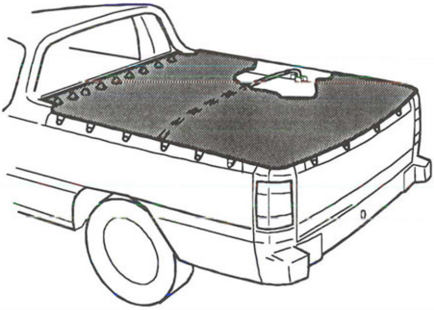


Ute tonneau cover (if fitted)

To install the tonneau cover, first secure the press studs along the lower edge of the rear window. The other three sides of the tonneau are held in place with an elasticised strap. Starting at one of the front corners, work around the car, pulling the strap over the hooks on the body of the vehicle.

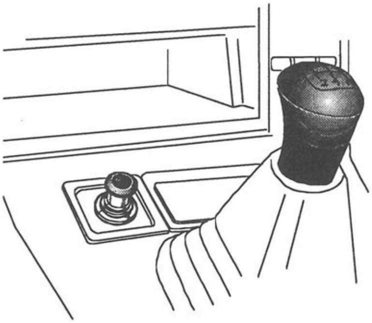
The hooks on the side of the Ute are provided for securing the tonneau cover and should not be used as tie-down hooks, as damage to the body may result.

Goods should be tied down only with the correct anchorages, which are available as an accessory from your Holden Dealer.



CIGARETTES & ASH TRAYS

Cigarette lighter



The cigarette lighter is operational when the ignition is turned to either ON or ACC.

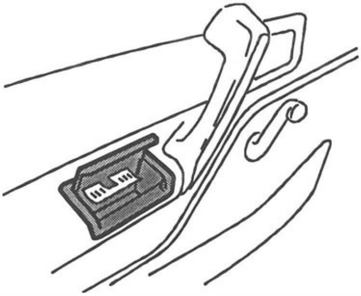
Press in the lighter knob; when the element is hot the lighter will automatically pop out, ready for use.

Front bucket seats. The cigarette lighter is located on the console, between the two front seats.

Front bench seat. The cigarette lighter is fitted beneath the heater controls.

Note: Any accessory device (car fridge etc.) connected into the cigarette lighter socket must not exceed a current draw of 10 amps. If you wish to use a device exceeding 10 amps you should seek the advice of your Holden Dealer.

Ash tray



The front ash tray is located either in the centre console (with bucket seats) or on either door arm rest (with a bench seat). To use, flip up the hinged cover. To clean, pull up the tray by grasping the cover flap.

Rear ashtrays (if fitted) are located in the rear arm rests. As with the front ash tray, they may be removed for cleaning by flipping up the hinged cover and then pulling out.

CHAPTER 4

Driving

Page

4-2 Safety
4-3 Engine starting
4-4 Automatic transmission
4-6 Manual transmission
4-7 Anti-lock Brake System (if fitted)
4-8 Running-in
4-8 Driving precautions
4-9 Snow chains

SAFETY

Before entering the car

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation (check with a pressure gauge each week).
3. If you intend to reverse, check that the area behind your car is clear.

Before driving off

1. Be sure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

Parking

1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors by pressing the LOCK button on key when outside the car.
6. Set deadlocking.

CAUTION:

Be careful where you park or drive. As with any car, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in a closed garage or underground carpark.

ENGINE STARTING

1. Ensure the park brake is firmly applied and release only after you have started the engine and are ready to drive off.

2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.
   AUTOMATIC: Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3. Start the engine as outlined below (with your foot off the accelerator).

For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts.

YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.

You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may cause premature engine wear or engine damage.

Engine won't crank

- PRESS AND RELEASE THE UNLOCK BUTTON ON THE KEY and try starting the engine again.
- NEVER PRESS THE KEY BUTTONS WHILE CRANKING THE ENGINE.
- Remove the key from the ignition, re-insert the key and try starting the engine again.
- If the security light is still flashing and engine still won't start refer 6-17 for over riding security system. However, if the engine does not start and the security light is *not* flashing you should see your Holden Dealer.

Flooded petrol engine

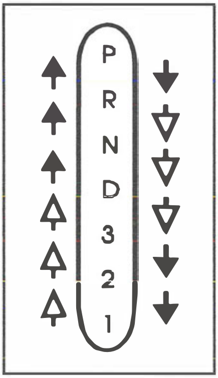
Cranking the engine for a lengthy period without it starting could result in flooding (too much fuel injected into the engine). If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position.
When the engine starts, allow the accelerator pedal to come up slowly.

AUTOMATIC TRANSMISSION

Floor mounted shift

Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

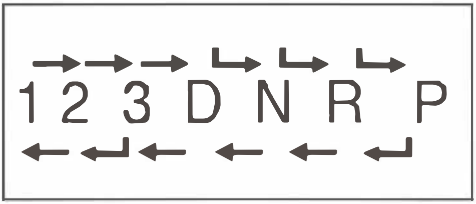
You may shift *without* raising the handle into any position marked by the outline arrow.



Column mounted shift

The gear shift lever is mounted on the left of the steering column, the gear indicator is mounted just above the steering column.

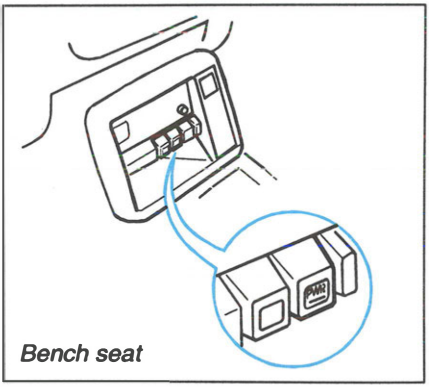
Pull the shift lever towards you when shifting into any position indicated by the bent arrow. You may shift into any position marked by the straight arrow *without* pulling the lever towards you.



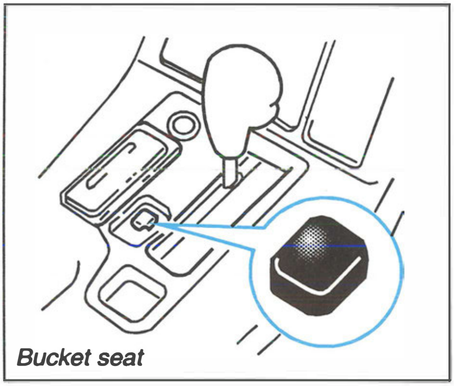
Power/economy mode

The transmission operates in two types of modes: power and economy. The PWR reminder light on the instrument panel will glow when in the power mode.

Economy mode is recommended on normal or freeway driving, as it gives better fuel economy. Power mode has revised automatic transmission shift points, to give the car a more responsive feel.



Bench seat



Bucket seat

AUTOMATIC TRANSMISSION

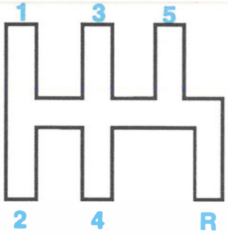
P (park)	This prevents the rear wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select P until your car is fully stopped. The engine can be started in this position.
R (reverse)	Never select R until your car is fully stopped. Reverse lights will operate when R is selected and the ignition is on. After reversing, make sure the car has fully stopped before selecting another gear position. After selecting R, pause for a moment before accelerating, to allow the transmission to "engage" reverse gear.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the car is still moving.
D (drive)	This is the most effective position for normal or freeway driving. The drive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 4) for the existing load and driving conditions. After selecting D from P or N, pause for a moment before accelerating, to allow the transmission to "engage" the forward gear. Use this position, together with the PWR mode for most towing (economy mode can be used for towing under ideal conditions).
3 (third)	Third is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift to first, second or third gear as conditions require. Drive (4th gear) is excluded.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little with minimal use of the brakes. The transmission will shift to first or second gear as required. Move the lever back into the drive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed on a steep gradient, below 60km/h. Remember to move the lever back to drive position so that the transmission will again upshift into higher gears. Even though the T-bar may be in 1, the transmission will not select first gear until car speed is less that 60 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline. Even though the T-bar may be in 1, the transmission will upshift automatically to second gear at about 5,700 rpm.

- The transmission will not downshift to 1st gear when speed is above 60 km/h.
- Don't rev the engine with the brakes on in either 1, 2, 3, D or R. This will overheat the transmission.
- Don't rev the engine to hold the car on a slope. Use the brakes.
- Don't coast the car in N - this lessens your control and you may need to accelerate quickly in an emergency.
- Refer page 7-7 when checking automatic transmission fluid level.
- The engine will not start unless the selector is in P(park) or N(neutral).

MANUAL TRANSMISSION

The transmission has 5 forward gears and a reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

When selecting REVERSE gear you must shift the gear lever sideways against spring pressure in order to pass into the gear.



Changing upwards

The recommended change speeds at which upwards gear changes should be made (under normal conditions) are shown in the chart.

Upshifting at higher road speeds will be necessary according to varying driving conditions such as load, road gradient, during overtaking and when other than light acceleration is required.

RECOMMENDED CHANGE SPEEDS				
Gear change	Normal conditions		For max *economy	
	V6	V8	V6	V8
1st-2nd	25 km/h	20 km/h	15 km/h	20 km/h
2nd-3rd	45 km/h	30 km/h	25 km/h	30 km/h
3rd-4th	60 km/h	45 km/h	40 km/h	40 km/h
4th-5th	85 km/h	65 km/h	55 km/h	55 km/h

*when driving under light load/low acceleration

Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the car has completely stopped. A slight pause between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the reverse lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchromesh to work properly.
- To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.
- When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or foot brake.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over speed the engine when shifting down to a lowest gear.
- 4th gear provides direct drive and 5th gear, overdrive.

A.B.S. (if fitted)

ABS (Anti-lock Brake System) is in addition to your car’s normal brake system. It prevents the wheels from locking up when braking, irrespective of the road conditions and tyre grip. It starts to regulate the braking as soon as a wheel shows a tendency to lock. The car remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Maximum braking is provided for each wheel, up to the point where it would lock. This means that steering control is retained.

In an emergency braking situation the driver should keep full force on the brake pedal, without 'pumping' the brake pedal. 'Pumping' the brake pedal can reduce brake efficiency when ABS is controlling the braking.

DO NOT let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by safe driving. Your speed should always be adjusted to suit road and traffic conditions.

An ABS OFF warning light is provided beneath the gauges. To check that the bulb is working, the light will come on for a few seconds when the ignition is turned on. If this symbol is displayed when driving a malfunction of the ABS system is indicated. Remember, however, that this only means that the ABS’s ‘no lock’ assistance is not operating, your car’s conventional brake system will still operate normally.

ABS
OFF

When your car is in a critical braking condition ABS will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

The ABS system performs a self check each time the car is driven. This can sometimes be heard as well as felt, as pulsing, through the brake pedal.

DRIVING PRECAUTIONS

"Running in"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your car's future performance and economy.

For the first 500 kilometres, don't exceed 100 km/h and avoid using heavy acceleration.

Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time. Therefore, avoid using the cruise control (if fitted) while "running-in". However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

It is best to drive your new car for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

Engine misfire warning

Reduce speed and do not tow a caravan or trailer - until the misfiring is corrected at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in car damage.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow articles in the luggage compartment. For wagons, loads stowed in the luggage area should be firmly secured.

Brakes

- The "power assisted" brakes, fitted to your car, use vacuum from the engine when it is running. Therefore, never let the car run down hills with the engine off, or coast after switching the engine off.
- Your seat should be positioned so that you can reach the brake pedal easily. Nothing should be under the brake pedal which could limit pedal travel, for-instance, poorly fitting floor mats.
- Consistent, heavy use will shorten the life of the brake pads.

Power steering

The "power assisted" steering, fitted to your car, has been designed to reduce steering effort. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates high operating temperatures and pressures within the system.

If power assistance for the steering isn't working, due to the engine stalling etc., the car can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

DRIVING PRECAUTIONS

Tyre grip

A decrease in tyre grip occurs when water, snow, ice, gravel or other materials are on the road. Driving speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Check that tyres are properly inflated.

Water crossing

Before crossing water it is recommended that air conditioning be switched off if your car has a 3800 (V6) engine.

Crossing deep water could damage the engine. It is recommended that the water depth be no more than 175mm and speed be limited to a walking pace. Brakes may then need drying out: lightly apply the brakes while maintaining a slow forward speed, with a clear area ahead, until brake performance returns to normal.

Snow chains

- Due to lack of clearance, snow chains should not be fitted to 7" wide wheels, as fitted on S and SS models.
- Snow chains should be fitted only on the rear (drive) wheels.
- Depending on design, large hub caps may contact parts of the chain. If so, remove the hub caps. Any valve extensions should also be removed.
- Snow chains may only be used at speeds up to 50 km/h.
- Snow chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break.
- The part of the snow chain that covers the tyre tread should not be thicker than 13mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 18mm (including the chain clasp). The use of thicker chains may cause damage to the body of the car.
- Ensure that tyre pressures are as per pressures recommended on the tyre placard.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the car's electronics (permanent damage is unlikely) when used inside the car, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the car should be used whenever possible.

If phones or CBs with an integrated antenna *must* be used inside the car, care should be taken not to operate near the dashboard area.

CHAPTER 5

Fuel

Page

5-2 Carbon monoxide caution
5-3 Petrol filling
5-3 Fuel Tank capacities
5-4 Emission Control
5-5 Reducing fuel consumption

If car converted to gas refer separate LPG supplement in glovebox.

PETROL

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your car is faulty.

To protect against exhaust gases entering the car, the exhaust system and body should be inspected:

- each time the car is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the car is damaged.

Take the car to your Holden Dealer if you think your car needs inspecting for any of the above reasons.

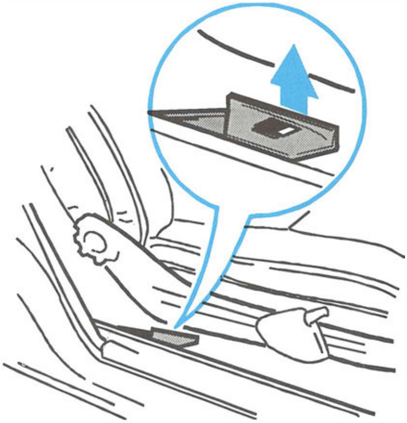
DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE CAR.

Driving with the boot or tailgate open is not recommended. If you *must* travel with the boot or tailgate open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

PETROL CAUTION:

- Petrol is extremely flammable and highly explosive.
- Always turn off the engine when refuelling.
- Do not smoke or allow open flames or sparks near the car when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay.

PETROL



Sedan & wagon: A release lever for the petrol flap is provided inside the car, on the floor, to the right of the driver's seat. Pull the lever up.

Ute models: Open the petrol flap from outside the car.

The petrol cap (under the petrol flap) is a screw-on, ratchet type. After refilling, tighten the cap clockwise until a clicking noise is heard, before closing the petrol flap.

Tank capacities

Sedan	- 59 litres or, depending on model, 73 litres
Wagon	- 68 litres
Ute	- 63 litres

Use UNLEADED PETROL of 91 octane rating, or higher.

High octane unleaded petrol ("Premium" etc.) may be used, but is not required by your car.

The use of any other fuel will seriously damage the engine of your car and may void your Warranty. Only clean petrol of good quality should be used.

Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

It is only permissible to "trickle fill" petrol tanks when the car is to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing petrol immediately; spray or splash with water.

EMISSION CONTROL

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your car are:

1. **Evaporative Emission Control System** (Australian Cars Only)
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian cars have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your car's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your car.

Owner responsibility

Cars sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of the car must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a car modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your car's emission control system as per your car's service manual, at the frequency shown in the Maintenance schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 12-5. This will ensure items such as the spark plugs, air cleaner, engine idle speed etc. are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance which contributes to increased fuel consumption, refer page 7-11.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the car at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning, when not required. However, once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter, to lubricate seals.

MEASURING FUEL CONSUMPTION

Before checking

- Fuel consumption should not be judged until the engine has been "run-in". You should wait at least 1,500 km before checking fuel consumption.
- Please read information on the preceding page, regarding reducing fuel consumption.
- Find a petrol station and petrol pump that will be convenient to use for the next few tank fills. This is necessary due to variations in pumping speeds between petrol pumps and petrol stations.

To check fuel consumption

1. Reset the tripmeter in the instrument panel to zero. If the car is fitted with a trip computer refer page 1-27 for resetting, or refer page 1-4 if the car does not have a trip computer.
2. Fill the fuel tank until the petrol pump first clicks off.
3. At the time of the next refill return to the same petrol station and petrol pump.
4. Record the distance travelled on the tripmeter and again reset the tripmeter to zero.
5. Fill the fuel tank until the petrol pump first clicks off.
6. Record the amount of petrol added to the tank from the petrol pump.

Calculating

1. Multiply the amount of petrol x 100, then divide the result by the kilometres driven.

   The answer is the "litres per 100 kilometres" consumption rate.

   e.g. 43.8 litres used, 476.3 km driven: $\frac{43.8 \times 100}{476.3} = 9.2$ litres per 100 km

2. Repeat this procedure three to five times, to get an average reading. This will take account of variables such as load, weather conditions and city/highway driving.

CHAPTER 6

Emergencies

Page

6-2 Accident
6-3 Medical assistance
6-4 Spare wheel location
6-6 Flat tyre
6-9 Towing a disabled car
6-9 Hazard warning flashers
6-10 Engine overheating
6-12 Flat battery
6-14 Air bag
6-16 Engine belt replacement
6-17 Engine won't start
6-18 Fuses
6-19 Bulb replacement

Your new car is covered for 3 years by 24 hour Roadside Service, refer page 9-10.

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

Accident - being involved

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see following page).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, car registration, owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his/her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Accident - being a witness

If you witness a road accident or it becomes your task to stop and help:

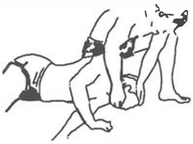
- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons. (see following page).
- Follow most of the steps suggested above. Perhaps you may have to take charge of the accident situation.

ACCIDENTS

Medical assistance

Keep calm and think clearly. Your experience may not be much but do your best. Don't just stand by and let an injured person die.

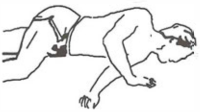
- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.



Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.



Lay the person on one side and - if it will not aggravate any injuries
Bend the uppermost knee until the thigh is at right angles to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground, free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.

- If the injured person is in danger and has to be moved, try and have three or four people help, concentrating on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

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SPARE WHEEL & TOOLS

If using a jack other than the one supplied with the car, refer page 7-14 for lifting positions.

Sedan

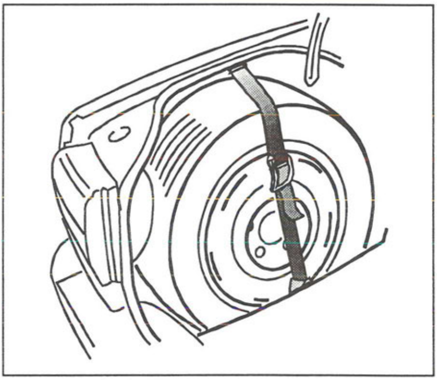
The spare wheel and the combination jack handle/wheel wrench are stored inside the boot.

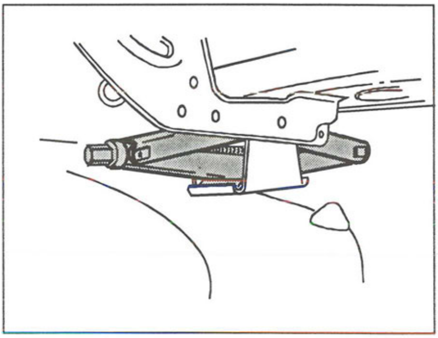
Push the strap buckle upwards to release the strap and remove the spare wheel.

The combination jack handle/wheel wrench is stored under the spare wheel cover.

The jack is also stored in the boot, up under the parcel shelf. Loosen the jack with the combination jack handle/wheel wrench and pull the jack out towards you.

When reinstalling the spare wheel, thread the lower strap up and then back down through the buckle on the upper strap. Then tighten the strap firmly by pulling the end of the strap downwards.

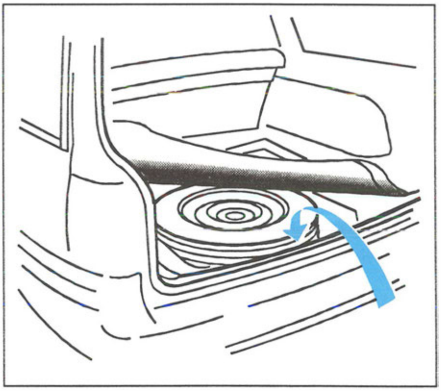




Wagon

The spare wheel, wheel wrench, jack and jack handle are stored under a cover in the rear load area.

- Open the tailgate and roll the carpet forwards.
- Unscrew the centre retaining nut and lift up cover.
- Remove the spare wheel.
- The wheel wrench, jack and jack handle are located at the very rear of the spare wheel compartment. Unclip the wheel wrench and jack handle (below the jack) then, using the jack handle, loosen off the jack. The jack can then be pulled to the left and out.

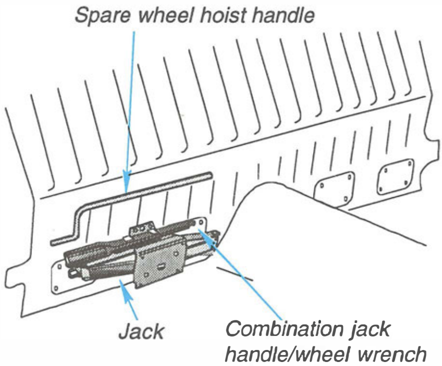


SPARE WHEEL & TOOLS

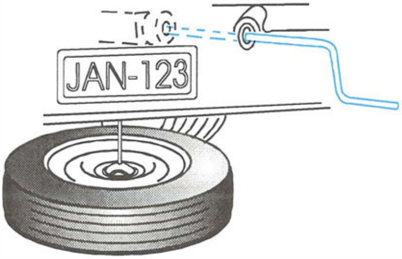
Ute

Remove the tools from behind the seats:

- jack
- combination jack handle/wheel wrench
- hoist handle



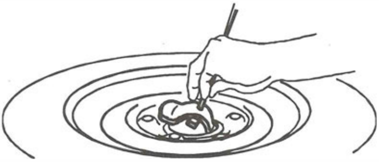
At the rear of the ute insert the hoist handle through the round hole near the rear number plate.



"Jiggle" the hoist handle until the square end of the handle is located in the square cut out in the hoist.

Turn the hoist handle anti-clockwise to fully lower the spare wheel.

Tilt the wheel retainer, allowing this to pass through the centre of the wheel.



To replace:

Place the flat tyre under the ute, directly beneath the hoist with the tyre valve facing upwards. Tilt the wheel retainer and place through the wheel.

Insert the hoist handle and turn clockwise, as far as possible, until a positive stop is felt.

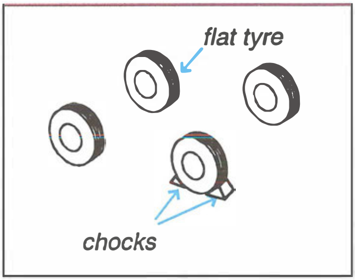
FLAT TYRE

CAUTION:

- Use the jack only for lifting the car when changing wheels.
- Never get beneath the car when it is only supported by the jack.
- Do not start or run the engine while the car is only supported by the jack.
- All passengers should be out of the car when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations can damage the car.
- The car should only be jacked on hard, level surfaces.

1. Park on a level surface and set the park brake firmly.
2. Remove the ignition key and place manual transmissions in REVERSE gear or automatic transmissions in PARK.
3. WAGON: Remove the jack, jack handle, wheel wrench and spare wheel (see previous pages).

   SEDAN AND UTE: Remove the jack, combination jack handle/wheel wrench and spare wheel (see previous pages).
4. Block the wheel diagonally opposite the flat tyre.



5. If wheel trim covers wheel nuts, remove as follows:

   If centre cap is fitted, remove the centre cap by inserting the handle end of the wheel wrench tool between the wheel and the centre cap at the slots provided and gently lever off.

   If individual plastic caps fitted, remove the individual plastic caps, covering the wheel nuts.

   Where full wheel trim fitted, remove the trim by inserting the handle end of the wheel wrench tool between the wheel and the wheel trim. Working around the wheel, gently and evenly lever off the wheel trim.

6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.

FLAT TYRE

7. Place the jack below the jack location closest to the wheel being changed.

   There are four jack locations, two each side of the car. The jack locations (blue arrows in the illustration) are marked by half circle cut outs on the car.

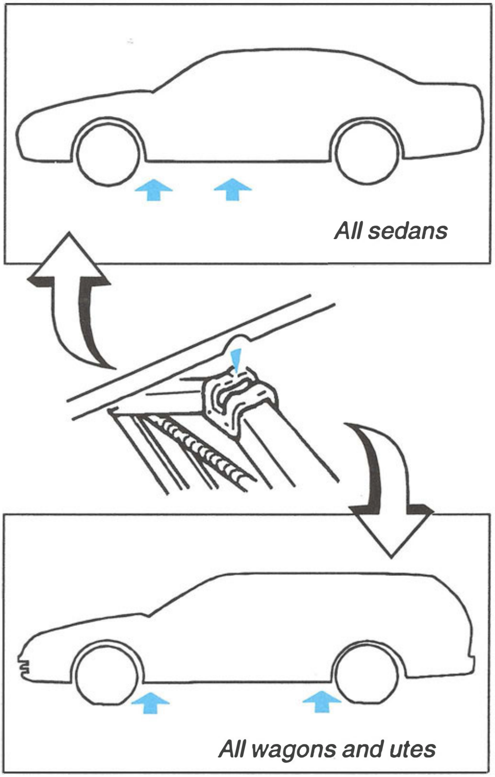
   Different models require different rear jack locations.

   For sedans, the rear jack location is half way along the car.

   However, for wagons and utes, the rear jack location is closer to the rear wheels (see illustration).

Always read the label on the jack.

CAUTION: Failure to position the jack as described above could cause the car to slip off the jack.



All sedans

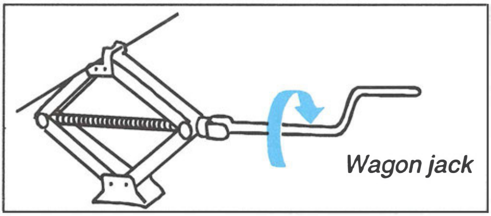
All wagons and utes

8. Raise the jack to fit the "U" shaped lifting foot of the jack around the car body, at the jack location.

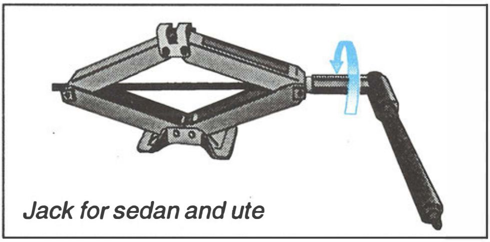
   Ensure that the jack is not tilted and that the base is resting squarely on the ground.

   The wagon jack handle is different from the sedan/ute jack handle. However both types are operated in the same way: turn clockwise to raise, anti-clockwise to lower.

   The jack handle for the sedan and ute must be *unfolded* into a right angle to use.



Wagon jack



Jack for sedan and ute

FLAT TYRE

9. Raise the car until the tyre is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

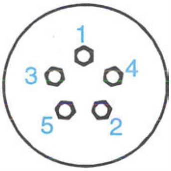
10. *Cars where wheel trim is held in place with wheel nuts (as on base model Ute):* Remove wheel centre cap and place with wheel nuts.

11. Remove the wheel from the car and change it over with the spare.

12. *Cars where wheel trim is held in place with wheel nuts (as on base model Ute):* Replace centre cap on installed wheel.

13. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.

14. Lower the car completely and remove the jack.



15. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

16. Replace any wheel trim which covers wheel nuts, as follows:

Note that each type of wheel trim fits in a specific position on the wheel. If incorrectly placed the trim will not sit "flush" and, if forced, may damage the wheel.

- Where plastic centre cap fitted: note the two notches on the underside of the cap. These must be lined up with the same slot provided for removing the wheel trim. Push on by hand.
- Where metal centre cap fitted: note the cone shape on the underside of the cap, which must be lined up with the cut-out in the wheel. Push on by hand.
- If full wheel trim fitted, locate the valve in the valve hole provided in the wheel trim. Working around the wheel trim, use several light blows with the palm of your hand to push on the wheel trim. It may be necessary to protect the hand during this operation.
- Where individual plastic nut caps fitted, replace caps on each nut.

17. Stow all tools and flat tyre as shown on earlier pages.

CAUTION:

As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 100~125 Nm.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as improperly tightened wheel nuts could eventually allow the wheel to come off while the car is moving!

TOWING A DISABLED CAR

Towing a disabled car

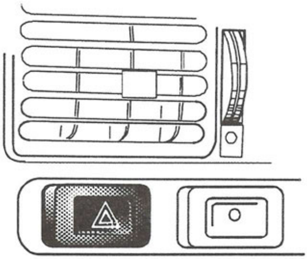
Proper lifting or towing equipment is necessary when lifting or towing the car to prevent damage. Country, State and Local laws must be followed. In an emergency, your car may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transmission in neutral position and release the park brake.
- Switch the ignition key to "ACC" position. This will free the steering lock and allow the correct operation of windscreen wipers and turn signals.
- For the sake of safety and to prevent damage to the car it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that *power assist* for brakes and power steering will not be available when the engine is off. The brakes and steering will still function, but will take greater effort.
- To prevent exhaust fumes from the towing car entering into the towed car, close the windows and move heating and ventilation controls to "re-circulate" position.
- Cars fitted with automatic transmissions must not be towed for more than 55 km or at over 55 km/h unless the propeller shaft is removed.
- Cars with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be in a towed car.

Hazard warning flasher

Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night.

- Turn on the hazard warning flasher by pushing the switch in the centre of the dash. The arrow symbols on the instrument panel will both flash simultaneously and all external signal lights will flash continuously.



ENGINE OVERHEATING

CAUTION: If the temperature gauge shows overheating, or if you suspect the engine of overheating, immediate action is required. Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury and/or severe car damage.

If the coolant temperature gauge needle should move to the 'H' position and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the car to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or water escaping. Wait until no steam or water can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge is still climbing, then turn the ignition key to LOCK.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump. Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level.

CAUTION: Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING

When the engine has cooled sufficiently, check the engine coolant level as follows:

First, remove the radiator cap - cover the cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

Then, remove the plastic coolant tank cap.

With the radiator cap OFF, top up the plastic coolant tank if required, refer page 7-3 if unsure of location. Remember to ensure cap is secure after filling. Then, **WHILE THE ENGINE IS IDLING**, top up the radiator (if required) and replace the radiator cap.

After taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

The engine may temporarily operate at high temperature during demanding operating conditions, especially on hot days, including:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid driving for prolonged periods in any of the above conditions if the temperature gauge shows "hot". It may help to turn off the air conditioner in these conditions.

Page 7-6 gives instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION: DO NOT "push start" or "tow start" your car, either manual or automatic. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can "jump start", but not "push start" your car.

If after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

Jump starting

CAUTION:

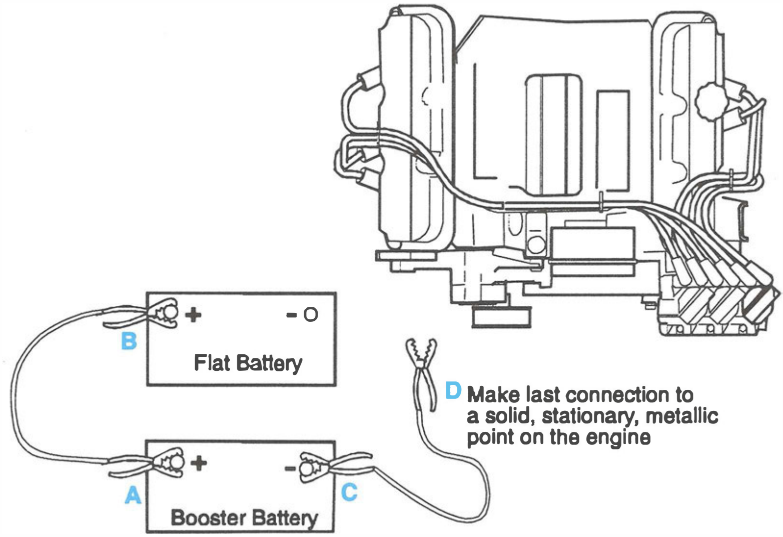
Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, when working near a battery:

- Do not use open flames or sparks near the battery.
- Do not smoke near a battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with lots of water immediately. If it gets in your eyes you should not only wash with lots of water but should also seek medical help. Battery acid will also damage paint and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start your engine.
- If you have a telephone fitted to your car, you should remove the fuse for the telephone before jump starting. Remember to reinstall the fuse afterwards.

1. The battery in your car has a negative earth and a 12 volt rating. The battery in the other car **MUST** also have a negative earth and a 12 volt rating.
2. Position the two cars so that they are NOT touching, apply the park brakes, put automatic transmission in PARK, manuals in NEUTRAL. Turn ignition to LOCK and switch off all lights and accessories in both cars, except the hazard warning flasher or any lights needed for the work area.

FLAT BATTERY

3. Attach one end of the RED jumper lead to the positive terminal of the booster battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal of the flat battery.



Make last connection to a solid, stationary, metallic point on the engine

4. Attach one end of the BLACK jumper lead to the negative terminal of the booster battery (identified by a black colour, - or N) and the other end of the BLACK jumper lead to a solid stationary, metallic point on the engine of the car with the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF CAR'S BATTERY.

5. When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the car with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery.

7. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

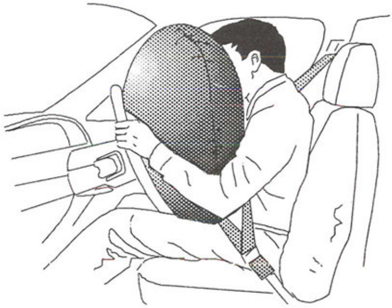
Note that your radio may require input of the PIN, refer page 1-15.

AIR BAGS (if fitted)

If your car is fitted with a driver's side air bag the words "SRS AIR BAG" will be stamped on the horn pad of the steering wheel.

If your car is also fitted with a passenger's side air bag a lable will be attached to the underside of the passenger's side sun visor.

If your car is fitted with both air bags they will operate as a pair - they are triggered simultaneously.



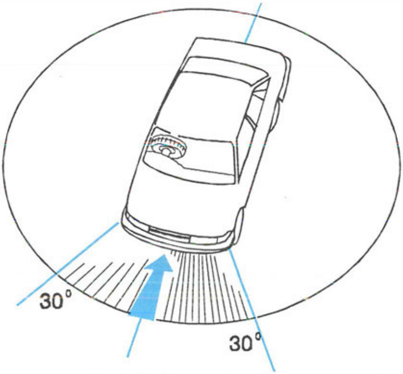
If your car is involved in a severe front end collision, the air bag will inflate, assisting the seatbelt to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bag will then deflate - the whole process *only taking a moment*.

The air bag is also called the "Supplemental Restraint System" as it assists, but does not replace the seat belt. The air bag is not designed to inflate if the car is hit from the rear or side or the car overturns. *Seat belts (by Law) should be worn by all passengers whenever the car is moving.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.



Air bag will inflate if car struck hard, within the shaded section. Air bag will not inflate if car struck from side, rear, or in some rollovers....always wear a seat belt.

An AIR BAG warning light on the instrument panel will glow for 3 to 4 seconds when the ignition is switched ON. This is to indicate that the air bag is operational. If the light *does not* show when the ignition is switched to ON, or if it illuminates when driving, you should contact your Holden Dealer, as the air bag may not function in an accident.

AIR BAGS (if fitted)

After an accident in which the air bag system was triggered, the air bag system (steering wheel, steering column, air bag and sensor) will have to be replaced by your Holden Dealer. Where a passenger side air bag is fitted, the air bag assembly, air bag cover and the dash panel, will have to be replaced.

The system should also be inspected by a Holden Dealer if the steering wheel or dash board area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.

CAUTION:

If a passenger's side air bag is fitted, the dash board area must be kept clear with nothing sitting around this area or hanging from the sun visor.

Extensive design and testing has gone into the Holden air bag system. It is extremely reliable and has very little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dash board area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar" can change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness. Please read the note on page 10-4.

Passenger's side air bag and child restraints

CAUTION:

NEVER install a rear-facing child restraint in the front seat of cars with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the back of a rear-facing child restraint would be very close to the inflating air bag.

You may install a forward-facing child restraint in the front seat, but ALWAYS move (an adjustable-type) passenger seat as far back as it will go.

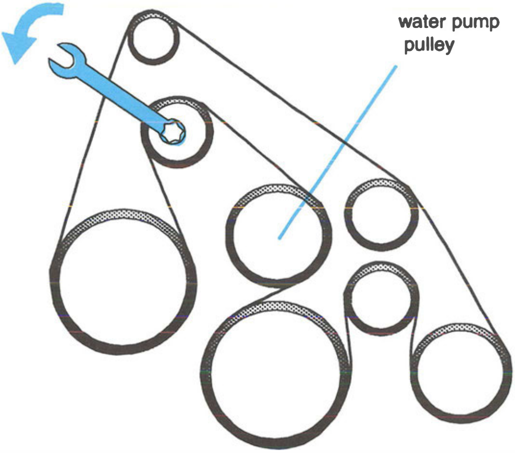
It is always better to install a child restraint in the rear seat.

6 CYLINDER ENGINE BELT

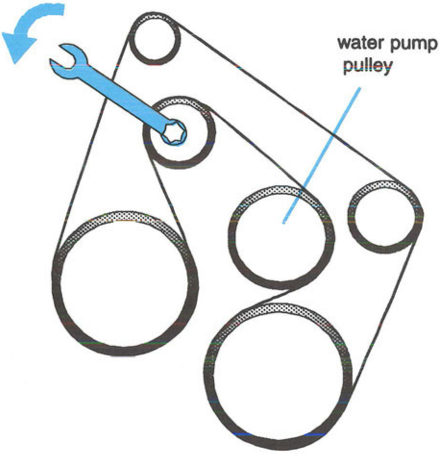
If the 6 cylinder engine accessory belt is broken, replacement is as follows:

- Feed the belt over the pulleys as shown - except for the water pump pulley. Ensure the belt is correctly installed around the pulleys before proceeding.
- Put a 15mm ring spanner over the bolt in the centre of the pulley shown.
- Move the spanner in the direction shown to release the tension on the belt.
- Feed the belt around the water pump pulley, then slowly release and remove the spanner.
- The belt will automatically adjust when the engine is started.

Removal of the belt is the same as replacement, that is, you must remove the tension on the belt with a spanner while removing the belt.



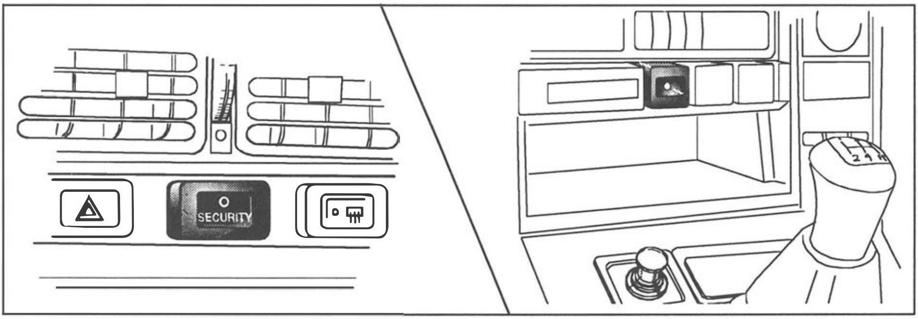
3800 (V6) engine with air conditioning



3800 (V6) engine without air cond.

ENGINE WON'T START

For your car's protection, the engine is automatically disconnected 30 seconds after the ignition is switched off. The security light will start flashing when this has happened. On some models this security light is located near the radio. On the higher luxury levels the light is located higher in the dash.



Inserting the key in the ignition and turning to the ON position will automatically reconnect the engine.

- If the engine won't start and the security light is still flashing, press the (UNLOCK) button on the ignition key until the security light stops flashing. If the engine still will not start, and the security light is still flashing, the system may be overridden by the following:

  1. Insert the key in the ignition lock and turn it to the ON position (instrument warning lights will illuminate). You will have to ignore the alarm if it is now set off.
  2. Turn off all accessories (so as not to flatten the car's battery).
  3. Wait for about 45 minutes (later built cars may have a waiting time of 2 hours). Do not turn the key during this time. *Note that the security light stops flashing when the engine is ready to be started*
  4. Turn the key directly to the start position and start the engine.

  If the engine now starts you should see your Holden Dealer to have the security system checked. You may have to wait 45 minutes (2 hours for later built cars) each time you wish to start the engine - until the system is fixed by your Holden Dealer.

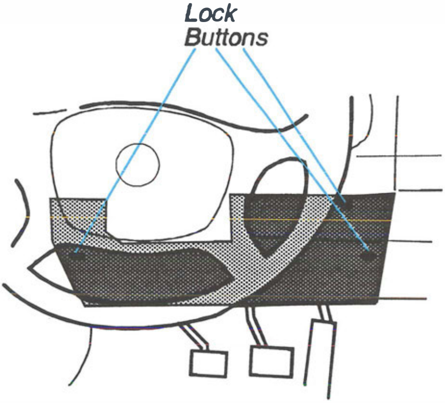
  If the engine doesn't start remember that your new car is covered for 3 years by 24 hour Roadside Service, refer page 9-10.

- Even if the battery inside the key is too flat to transmit the signal to unlock the doors, you may still unlock the doors by turning the key in the door lock barrel (which may set off the alarm, if fitted). The engine will be reconnected as per normal (by turning the key in the ignition) despite the flat key battery. This will also turn off the alarm.

FUSES

The main fuse panel is in the instrument panel, to the right of the steering column.

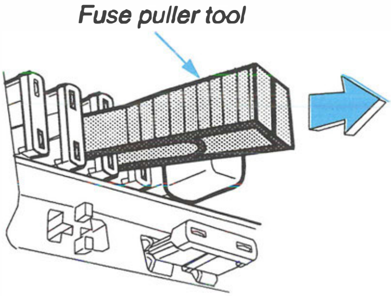
Undo the three lock buttons a half a turn with the ignition key, then pull the hinged fuse panel down to reveal the fuses.

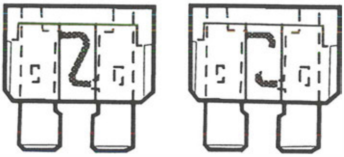


The separate, fuse/relay box is located in the engine compartment, refer page 7-3 for location. Access to these fuses is gained by removing the snap on cover.

Both covers have diagrams showing the layout of the fuses and the amperage rating.

To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. A fuse puller is provided under the fuse panel cover, inside the car.





Good fuse Blown fuse

If the fuse has blown, replace with one of the same amperage, as stamped on the fuse head.

If a fuse blows twice in a row a fault is indicated. The cause should be located and fixed, by a Holden Dealer.

Ensure that the fuse cover, either inside the car, or under the bonnet, is securely in place. When replacing the three lock buttons (on the fuse panel cover inside the car) turn clockwise while pushing in, until the lock button is secure and the slit is horizontal.

CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

BULB REPLACEMENT

Headlights (60/55 watts)

Do not touch bulbs or reflectors with bare hands. Greasy fingers will cause stains which evaporate - eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

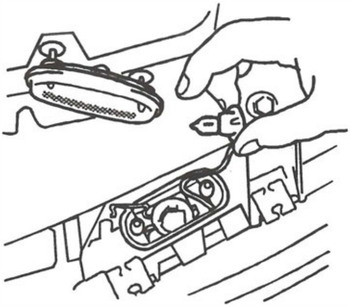
1. Open bonnet. Turn dust cap anti-clockwise and remove from rear of headlight assembly.
2. Pull off wiring harness connector from rear of bulb.
3. Unclip spring retainer and pivot clear of bulb, then remove bulb.
4. Refit new bulb into place, refit spring retainer, wiring harness connector and dust cap (ensuring rubber "o" ring is in place). Ensure bulb is seated correctly in reflector.
5. Re-aim headlights. Detailed procedures for headlight aiming are given in the relevant service manual for your car. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

Front park lights (5 watts)

1. Remove dust cap from rear of headlight.
2. Remove park light bulb holder (located next to headlight bulb) by pulling straight out of housing.
3. Remove park light bulb by pulling straight out of holder.
4. Insert new bulb, reinstall holder and dust cap (ensuring rubber "o" ring is in place).

Inboard high beam (55 watts)

1. Open the bonnet. Located on the top of the headlight housing is a dust cap, secured by two screws. Remove the two screws and the dust cap.
2. Disconnect spring retainer and pivot clear of bulb.
3. Pull bulb out far enough to expose electrical lead connector.
4. Disconnect connector and remove bulb assembly.
5. Connect new bulb and electrical lead, install bulb assembly into correct locating notches, reconnect spring retainer. Refit dust cap, ensuring rubber "o" ring is in place.



BULB REPLACEMENT

Front turn signal (21 watts)

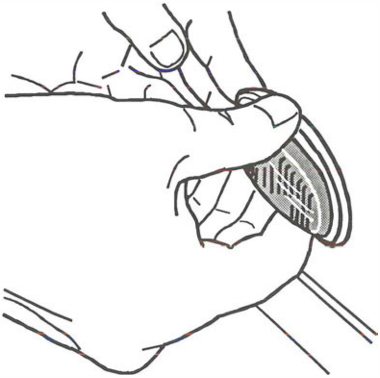
1. Open bonnet. Twist to release bulb holder from behind turn signal assembly.
2. Lightly depress bulb and remove in a twisting motion out of the holder.
3. Insert new bulb and reinstall bulb holder.

Side turn signal (5 watts)

The lens housing is removed by hand. Grasp the lens housing at the rear, push forwards and then pull away from the car body. Separate the bulb holder from the lens assembly by first rotating the bulb holder anti-clockwise.

The bulb pulls straight out of the bulb holder. Insert new bulb into bulb holder. Install bulb holder into lens housing. Note that bulb holder only fits into lens housing in one way. Therefore, keep turning bulb holder clockwise until it fits into place and can be tightened.

When re-inserting the lens housing, first locate the front of the lens into the fender opening before pushing the rear of the lens in towards the car body.



Sedan : reverse (21w), tail (5 w)

1. Open boot lid and remove any carpet trim from area.
2. Inside boot lid, twist to release bulb holder from behind light assembly.
3. To remove reverse, light push in and turn. To remove tail light, pull bulb straight out.
4. Insert new bulb and reinstall bulb holder.
5. Replace any carpet trim.

Wagon & ute: rear turn signal (21w), stop/tail (21/5w), reverse (21w)

1. Unscrew the four screws and remove the lens.
2. Slightly depress respective bulb and rotate to remove from socket.

Bulb socket sequence from top downwards is: Turn signal, stop/tail, reverse.

BULB REPLACEMENT

Sedan: rear turn signal (21 w), stop/tail (21/5 w)

1. Open boot and remove carpet retainer and pull carpet away from the rear of the lights.
2. Remove 3 attaching nuts and push lens housing out and away from panel.
3. From behind the light assembly, depress the lever on the side of the bulb holder, then twist bulb holder to release.
4. Remove bulb from socket by pushing in and turning.

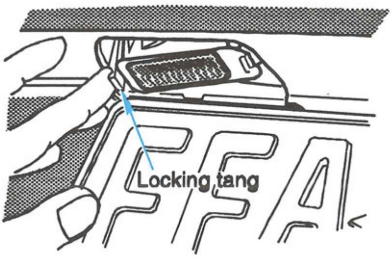
Note that to help prevent water entry, grease is filled on the bottom of the bulb. Therefore, do not wipe grease off new bulb.

5. Insert new bulb into socket and refit socket into lamp housing, ensuring socket locks securely into place.
6. Refit lens housing, refit and tighten the 3 screws.
7. Refit carpet and carpet retainer.

Number plate (5 watts) - Sedan and Ute

The two number plate bulbs are above the number plate. Open the boot. Push in the tab at the left of the lens housing and pull lens housing down. Turn bulb holder anti-clockwise and remove bulb holder from lens housing. Pull bulb straight out of bulb holder.

Push new bulb into bulb holder, install bulb holder into lens housing. Feed wiring back into cavity. Fit right side of lens housing in boot lid and then push lens housing into place.



Number plate (5 watts) - Wagon

Two bulbs are located above the number plate. To replace a bulb, undo the two screws at either side of the lens. The bulb can be pulled straight out. Install new bulb, replace lens and refit screws.

BULB REPLACEMENT

Sedan rear high stop light (18 watts)

From the boot, reach in under the stop light and twist to remove the bulb socket.

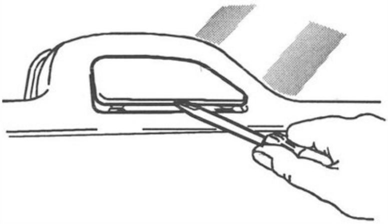
Bulb pulls straight out of bulb holder.

Install new bulb in bulb holder, refit bulb holder back into stop lamp.

Note that if your car has a high stop lamp in the rear spoiler (SS models) it is recommended that bulb replacement be carried out by your Holden Dealer.

Wagon rear high stop light (18 watts)

Open tailgate and remove cover at rear of high level stop light. From inside cavity of the stop light, twist bulb holder anti-clockwise. Pull bulb holder out of the cavity. Bulb pulls straight out of bulb holder. Install new bulb in bulb holder, refit holder in stop light cavity. Replace cover.

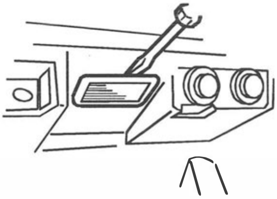


Fog lights (55 watts if fitted)

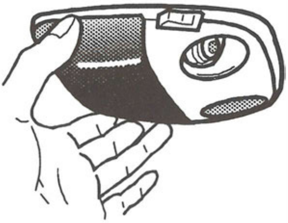
Undo 2 screws to remove front bezel. Pull light assembly forward. Remove two front screws from either side of lens and pull assembly away. From the rear of the fog light, squeeze both ends of wire retaining clip together and pivot wire retainer away. Pull bulb assembly out and disconnect at electrical wire connector clip. Connect new bulb assembly (including electrical lead), and install into correct locating notches, re-connect spring retainer. Refit into fog light housing and refit two front screws. Install assembly into vehicle and refit two screws.

Glovebox - (5 watts)
Console bin (5 watts if fitted),
Boot (10 watts)
Wagon load area (10 watts)
Door (5 watts if fitted)

Gently prise away the lens housing with a screwdriver. Pull tab holding bulb (opposite end to wiring) backwards and pull bulb out. To install new bulb, first pull tab backwards. When new bulb is in place feed wiring back into cavity and push lens housing back into place.

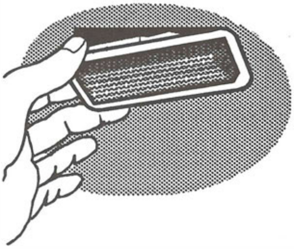


BULB REPLACEMENT



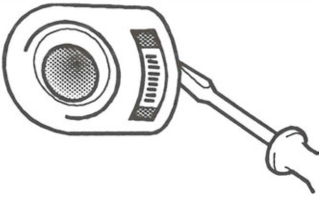
Interior dome (10 watts), Front reading (5 watts if fitted)

With your hand, gently prise away the snap-on lens. The interior dome bulbs can then be pulled straight out by hand. Front reading light bulbs must be pushed in and rotated, before pulling out.



Rear reading light - square lens type (10 watts if fitted)

Squeeze in tab at rear of lens housing and remove lens housing. Pull tab holding bulb backwards and pull bulb out. To install new bulb, first pull tab backwards. When new bulb is in place push lens housing back into place.



Rear reading light - round lens type (5 watts if fitted)

Gently lever off the light assembly with a screwdriver. From the rear of the lamp assembly, twist to remove bulb socket. The bulb then pulls straight out of the socket.

Footwell lights (2.7 watts if fitted)

Bulbs (including their green cover) simply pull straight out and push back in.

There is one located above the brake pedal, one behind the passenger's side glovebox and two located at the rear of the console.

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks
7-2 Service manuals
7-3 Check locations
7-4 Engine oil level check
7-6 Engine coolant level check
7-7 Auto trans. fluid level check
7-8 Washer fluid level check
7-9 Brake fluid level check
7-9 Clutch fluid level check
7-10 Power steering fluid level check
7-11 Tyre air pressure
7-12 Tyres (general)
7-13 Battery
7-14 Trolley jack locations

MISCELLANEOUS CHECKS

As well as taking your car to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

CAUTION: The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.

CAUTION: Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

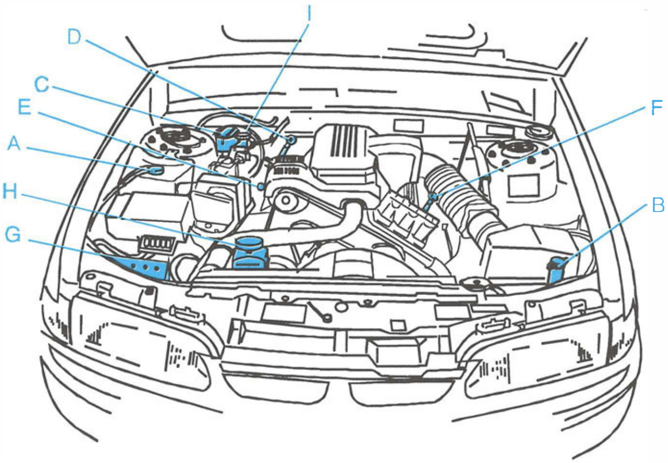
The following checks should also be regularly done to ensure safety of your car.

- that all exterior lights are working and that their appropriate interior indicators light up.
- mirrors and glass are clean and not scratched.
- automatic transmission T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- demister operates.
- horn works.
- all seat belt condition and operation and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

Holden also publishes various service manuals which are available from your Dealer.

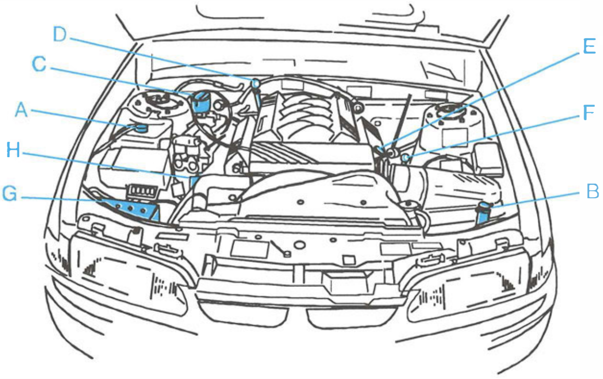
CHECK LOCATIONS



3800 (V6) engine

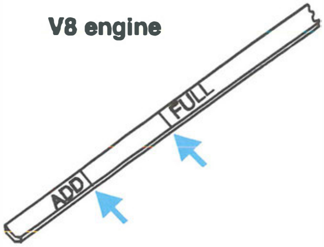
A	Engine coolant	page 7-6
B	Windscreen washer fluid	page 7-8
C	Brake fluid	page 7-9
D	Dipstick for automatic transmission	page 7-7
E	Engine oil cap	page 7-4
F	Dipstick for engine oil	page 7-4
G	Battery	page 7-13
H	Power steering fluid	page 7-10
I	Clutch fluid	page 7-9

5000 (V8) engine



ENGINE OIL LEVEL

To check the level

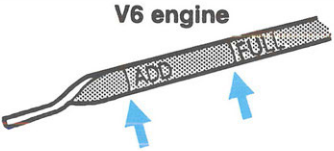


- The oil level should be checked weekly.
- Check the level when the oil is warm, such as when stopping for fuel.
- The car must be on level ground.
- After switching off the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick. Refer to the diagram on page 7-3 for location.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be between the two marks, neither going above the FULL mark nor under the ADD mark. Remember to re-insert the dipstick firmly after taking the reading.



To add oil

If the level is low and you need to add oil, use SG or SH grade engine oil 20W/50, or 15W/40 for prolonged use in snow areas.

To add oil, turn the oil cap (refer page 7-3 for location) anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil.

When correct, screw the cap back on tightly and replace the dipstick. If you check the oil level when the oil is cold do not run the engine first, as the cold oil will not drain back into the oil pan fast enough to give an accurate reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may also damage the engine.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the car is operated; the quality and grade of oil; the oil level, and dilution of the oil.

• Operation of the car

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

• Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

• Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

• Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose car is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a car that has accumulated 1,500km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this car is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

ENGINE COOLANT LEVEL

The coolant level should be checked at least weekly. This is simply a matter of looking at the level in the plastic tank. For ease of location, the coolant cap (and the washer fluid cap) have been coloured yellow, refer page 7-3 for exact location.

When the engine is cold the coolant level should be at or above the *MINIMUM* mark on the plastic coolant tank. After the car has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the *MAXIMUM* mark.

The LONG LIFE COOLANT in your car conforms to Holden specification number HN 2043. This can be purchased as:

M40236 (1 litre)	M40307 (5 litres)	M40238 (20 litres)

If the plastic coolant tank requires topping up, first pre-mix a solution of 50% LONG LIFE COOLANT and 50% water. Undo the cap on the top of the plastic tank, add the pre-mixed solution and secure the cap.

Failure to use the specific Holden coolant or maintain the specified concentration may void your warranty.

In emergency situations, plain water may be used temporarily until the correct Holden long life coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified long life coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -37°C, provided the 50% concentration is maintained.

If you regularly have to top up the cooling system you should see your Holden Dealer.

CAUTION:

Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

Do not remove the radiator cap or plastic coolant tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to page 6-10 if engine overheats.

AUTOMATIC TRANSMISSION LEVEL

The fluid level should be checked monthly, by looking at the fluid level on the dipstick. For ease of finding, the transmission dipstick handle is coloured red. Refer to the diagram on page 7-3 for exact location.

Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

The fluid should be checked after the car has been driven for at least 20 kilometres - so that the fluid is warm.

The car must be standing on level ground with the engine running.

The gear shift selector should be in PARK and the park brake applied.

Unclip the handle and remove the dipstick, wipe it clean with a clean cloth or paper and re-insert it fully. Now remove it again and read the fluid level.

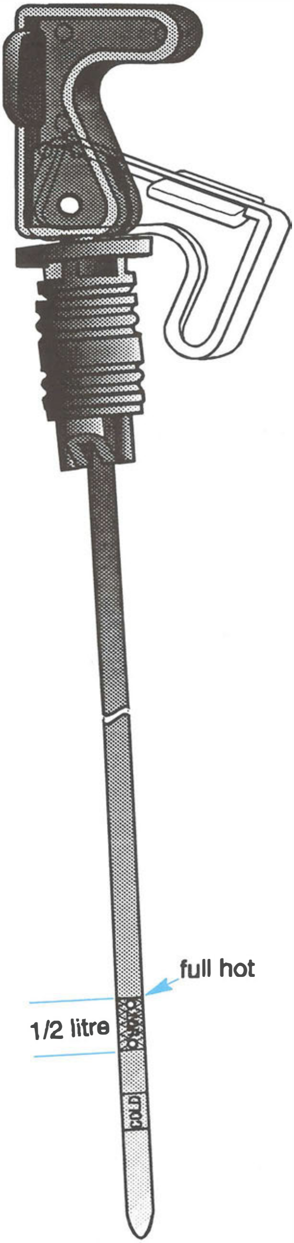
The fluid level should be showing on the cross hatched HOT area.

The level should NEVER read over the FULL HOT mark, so be careful not to add too much.

If adding fluid, use only DEXRON®III AUTOMATIC TRANSMISSION FLUID. Add the fluid in the dipstick tube (the same opening as the dipstick is stored in) and wait one minute for the oil to settle. Again check the level on the dipstick with the engine running and add further fluid if necessary. Remember to always replace the dipstick and lock the handle down.

If fluid has to be added often, there may be a problem or leak and you should see your Holden Dealer.

NOTE: The cold markings on the dipstick should only be used as an indication when initially filling the transmission after the fluid has been completely drained. It should be rechecked when hot.



WASHER FLUID LEVEL

The container shown supplies water to both the front windscreen washer and rear wagon washer.

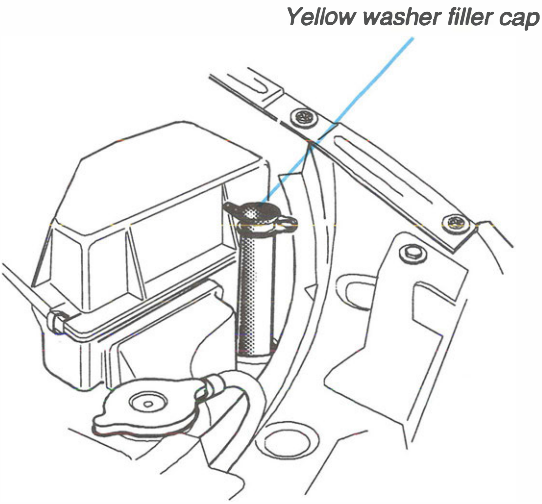
As washer fluid is constantly used the level should be checked weekly and topped up, to capacity.

A blue float inside the washer container makes the fluid level easy to read from the outside.

For a crystal clear windscreen, the correct amount of Optikleen (part number M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

Note that washer jets are not adjustable, and can be damaged if tampered with.

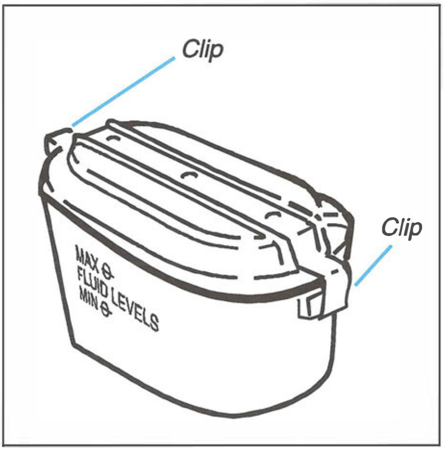


BRAKE AND CLUTCH FLUID LEVELS

Brake fluid level

The brake fluid level in the master cylinder should be checked weekly. The fluid level, is visible through the master cylinder (see page 7-3 for location) and should be maintained between the MIN and MAX level markings. If the fluid is between these levels do not remove the master cylinder cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

If fluid does need to be added, first ensure that the ignition is switched to OFF. Wipe clean the sides of the top cover. Then, unclip and lift off the top cover. Top up with heavy duty brake fluid which meets Holden specification number HN 1796. This can be purchased as Holden part number 92026651. Remember to secure the cap at each end.



Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

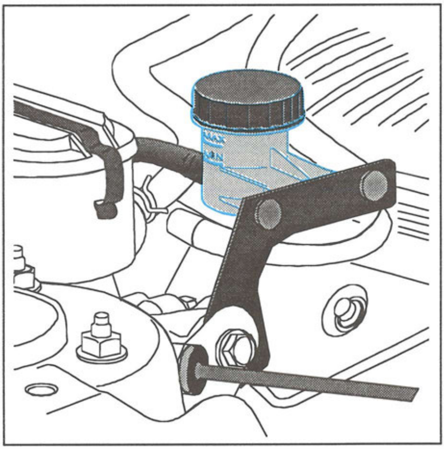
If the master cylinder requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.

Clutch fluid level

The clutch fluid level should be checked weekly. The fluid level, is visible through the container and should be maintained between the MIN and MAX level marks. If the fluid is between these levels do not remove the cap, as the fluid will quickly absorb moisture if exposed to the atmosphere .

If fluid does need to be added, first ensure that the ignition is switched OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid (both the clutch system and the brake system use **brake** fluid) which meets Holden specification number HN 1796. Remember to replace the cap.



Use only new fluid. Use of old, used or inferior fluid may endanger the functioning of the clutch system.

If the clutch fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.

POWER STEERING FLUID LEVEL

The level should be checked after the car has been driven for a while (at least 20 minutes) so that the fluid is warm. A convenient time is when stopping for petrol. The cold level check should only be used after the engine has not been running for at least 5 hours. The hot level check, however, is always recommended.

If fluid needs to be added, use DEXRON® III. Do not over fill and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer.

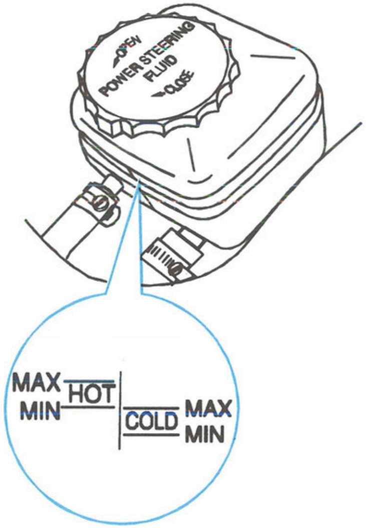
V6 engine

Refer page 7-3 for location of the reservoir.

The fluid level can be viewed through the transparent reservoir. The level markings are on the rear of the reservoir.

When the fluid is cold the level should be between the COLD MIN and MAX marks; when the car has been driven for a while and the fluid is hot the level should be between the HOT MIN and MAX marks.

If fluid must be added, undo the cap anti-clockwise to the safety "stop"; push down on the cap and turn it further anti-clockwise, until the cap can be lifted off.

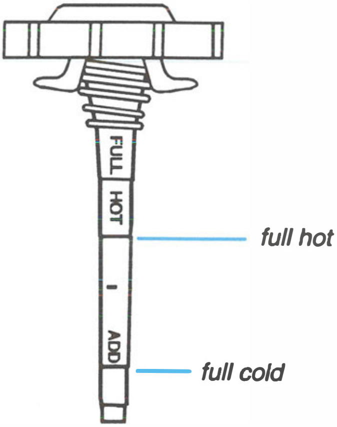


V8 engine

Refer page 7-3 for location of the reservoir. Unscrew and carefully remove the cap on top of the reservoir. The dipstick is attached to the cap.

When hot, the fluid level should be maintained at or below the HOT mark.

If checking the level when the car has not been driven for a while, then the level should be at or below the COLD mark.



TYRES

Tyre air pressure

Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is shown on the tyre placard.

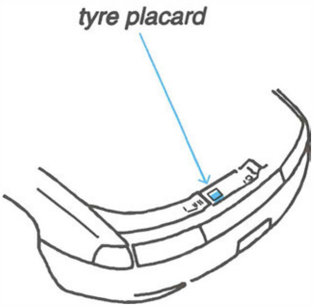
Tyre inflation pressure increases when the tyres have been driven more than 2km. Therefore, the pressure should be checked when the tyres have been stationary for over 3 hours. If they must be checked while driving allow 10% more pressure.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Cars driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure recommended for maximum load condition on the tyre placard.



Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear.

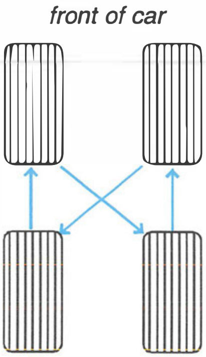
If you suspect either of the above problems exist have a wheel alignment and balance check carried out by your Holden Dealer.

TYRES cont.

Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.



Replacement and repair

Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your insurance policy. Refer to tyre placard on your car for tyre size and load rating, see previous page. Using a different size or type of tyre may affect such things as ride, handling, speedometer, car ground clearance, tyre clearance or snow chain clearance.

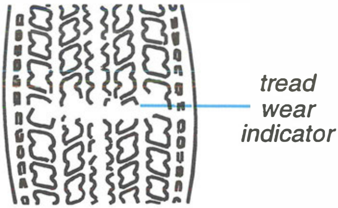
Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your car should be referred to your Holden Dealer.

Tyres with a *higher* speed or load rating are acceptable, provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your car have built-in tread indicators. When only 1.5 mm of tread remains, these indicators show as plain bars across the tread pattern at regular intervals around the tyre.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.



- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded will not be able to be driven safely at high speeds. Therefore, their use is not recommended.

BATTERY

The fluid level of the battery will be checked for you when you take your car to be serviced by your Holden Dealer. If your car is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

CAUTION:

Batteries emit an explosive gas mixture which may be ignited. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watch bands) near battery terminals.

When checking the battery level, make sure the engine is not running. Each of the six cells must be individually checked. Use distilled water, as required, to keep the level just below the bottom of each split tube. DO NOT OVER FILL.

Refer page 6-12 for emergency starting when the battery is flat.

Battery replacement

Low maintenance, 12 volt 95 min / 400 amp.

Car storage

The battery is recharged by the generator when the engine is running. If the engine is not run for approximately 6 weeks the battery will discharge, due to the power required by the security system etc. If the battery is disconnected it will discharge anyway after approximately 12 weeks.

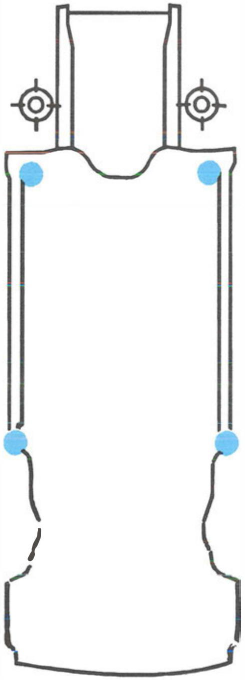
If you do disconnect the battery when leaving the vehicle for a long period of time it is recommended that the battery be "trickle fed" before replacing it in the car.

TROLLEY JACK LOCATIONS

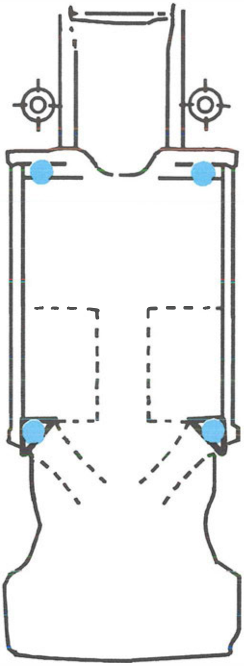
You should always use the jack locations shown on page 6-7 when using the original jack supplied with your car. This jack has been designed to correctly and safely lift your car. Also note the precautions on page 6-6 prior to lifting.

However, if using a trolley jack to raise the car, it is important that the jack be positioned under the suspension cross member or hoist pad locations. DO NOT JACK UNDER THE SUSPENSION CONTROL ARMS. The car should always be supported by jack stands when raised.

Note that there are different locations (shown in blue) for the rear lifting position, depending on whether your car is fitted with or without IRS (Independent Rear Suspension). IRS is fitted as standard to Calais.



If IRS fitted (i.e. IRS is fitted as standard to Calais)



If IRS not fitted

CHAPTER 8

Specifications

Page

8-2 Lubricants
8-2 Power and torque
8-2 Capacities
8-3 Body dimensions
8-4 Identification plates

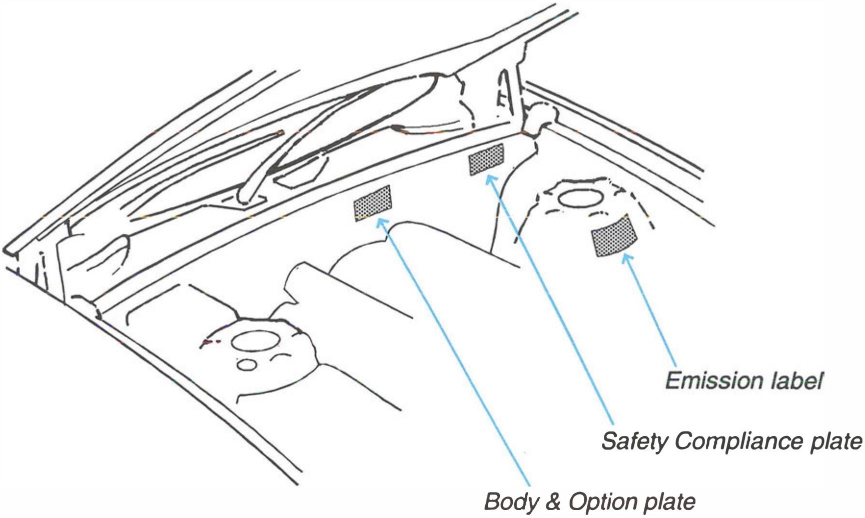
GENERAL SPECIFICATIONS

<table>
<tr><th colspan="2">Engine type</th><th>3800 (V6)
6 cylinder,
direct fire ignition, port fuel injection</th><th>5000 Injection (V8)
8 cylinder
port fuel injection</th></tr>
<tr><td rowspan="2">Engine oil</td><td>Spec.</td><td colspan="2">Service classification SG or SH. Viscosity grade 20W/50 for normal use, Holden Motor Oil part no M40106 (5 litres) is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended.</td></tr>
<tr><td>Service Capacity (incl. filter)</td><td>4.3 litres approx</td><td>5.1 litres approx.</td></tr>
<tr><td>Engine</td><td>Power and torque</td><td>147 kW @5200 rpm
304 Nm@ 3600 rpm</td><td>165 kW @ 4400 rpm
385 Nm @3600 rpm</td></tr>
<tr><td rowspan="2">Coolant</td><td>Spec.</td><td>50% water and 50% long life coolant conforming to Holden specification number HN 2043, part number M40236 (1 litre) or M40307 (5 litres).
In addition, 3 pellets, part no M40124 must be added when replacing coolant</td><td>50% water and 50% long life coolant conforming to Holden Number HN 2043, part number M40236 (1 litre) or M40307 (5 litres)</td></tr>
<tr><td>Capacity</td><td colspan="2">12 litres, approx.</td></tr>
<tr><td rowspan="2">Auto trans fluid</td><td>Spec.</td><td colspan="2">Dexron ®111</td></tr>
<tr><td>Service Capacity</td><td>4.8 litres, approx.</td><td>5 litres, approx.</td></tr>
<tr><td colspan="2">Manual transmission fluid</td><td colspan="2">GETRAG
Castrol VMX 80W
Dexron ®111</td></tr>
<tr><td colspan="2">Brake and clutch fluid spec.</td><td colspan="2">Heavy duty brake fluid, Holden Number HN1796</td></tr>
<tr><td colspan="2">Power steering fluid spec.</td><td colspan="2">Dexron ®111</td></tr>
<tr><td colspan="2">Fuel tank capacities</td><td colspan="2">Sedan = 59 litres or, depending on model, 73 litres
Wagon = 68 litres
Ute = 63 litres</td></tr>
</table>

DIMENSIONS (mm)

	SEDAN			WAGON		UTE
	EXEC.	BERLINA	CALAIS	EXEC.	BERLINA	
Length	4861	4861	4861	4903	4903	4896
Width	1794	1794	1794	1794	1794	1794
Height	1448	1445	1443	1478	1479	1510
Wheel base	2731	2731	2736	2822	2822	2822
Overhang -front	946	946	946	946	946	946
Overhang - rear	1184	1184	1180	1135	1135	1128
Front track	1491	1491	1491	1491	1491	1491
Rear track	1491	1491	1491	1478	1478	1478

IDENTIFICATION LABELS



Body and Option Plate

This plate shows model identification, body serial number, paint and trim colour combination, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and built date. The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

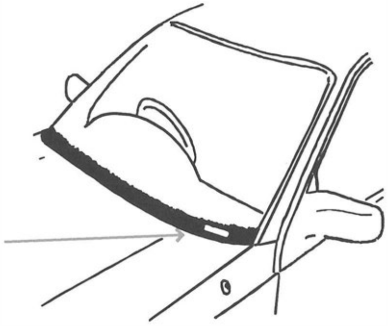
Safety Compliance Plate (Australian cars)

Shown on the plate are the vehicle Make, Model Series, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity, Gross Vehicle Mass (GVM) on utility and Approval Number.

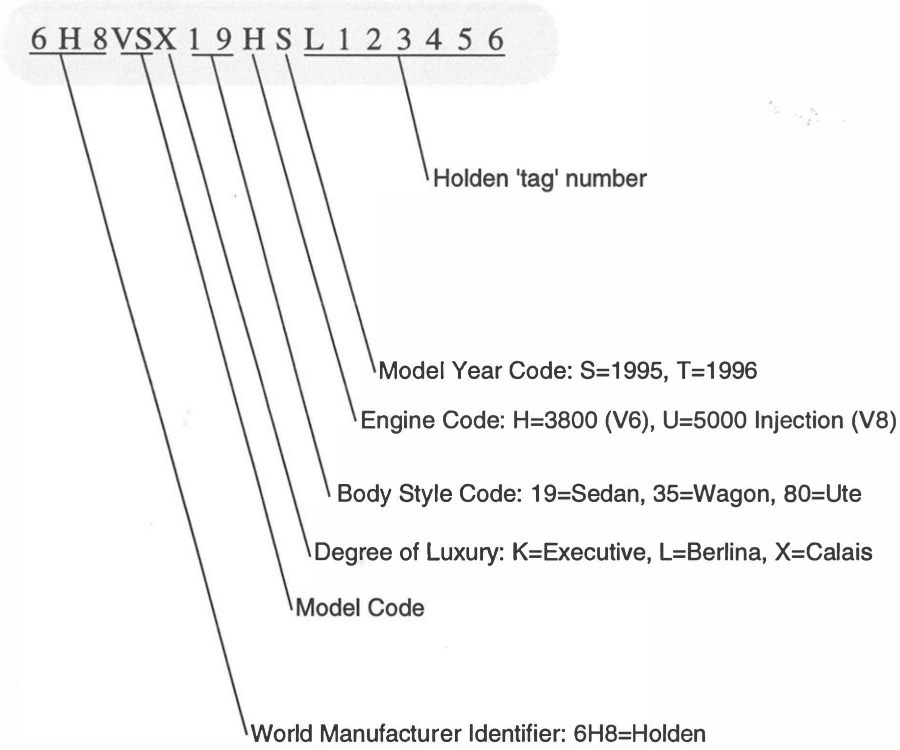
Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions.

I.S.O.V.I.N.



I.S.O.V.I.N. plate



6 H 8 V S X 1 9 H S L 1 2 3 4 5 6

Holden 'tag' number

Model Year Code: S=1995, T=1996

Engine Code: H=3800 (V6), U=5000 Injection (V8)

Body Style Code: 19=Sedan, 35=Wagon, 80=Ute

Degree of Luxury: K=Executive, L=Berlina, X=Calais

Model Code

World Manufacturer Identifier: 6H8=Holden

CHAPTER 9

After Sales

Page

9-2 New Vehicle Warranty
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Note: Dealership names and addresses may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

General Motors - Holden's Automotive Ltd. A.C.N. 006 893 232, hereinafter Holden, warrants that it will make good without charge, any defect which appears in the vehicle identified in the vehicle identification certificate, found on the inside front cover of this handbook.

Provided, for the Vehicle Warranty

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (a) before the vehicle has travelled a distance of 50,000 km or,

   (b) within 24 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 24 months of the date when it was first placed into service by the Dealer)

   whichever comes first, **AND** ***for the Powertrain Warranty***

   the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (c) before the vehicle has travelled a distance of 100,000 km or,

   (d) within 36 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 36 months of the date when it was first placed into service by the Dealer)

   whichever comes first, AND

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

   AND

   the Dealer has determined that the defect complained of is one of workmanship and is not caused by

   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect

   (b) operation of the vehicle after it is known to be defective

   (c) accident or deliberate act

   (d) atmospheric fallout or flood, hail, salt, etc.

   (e) failure to carry out proper maintenance service

   (f) use of incorrect types and grades of fuel, oil or lubricants

   (g) alteration or modification of the vehicle by any party not authorised by Holden

   (h) the fitting of parts or accessories not marketed by Holden

   (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN, BY REPLACEMENT.

NEW VEHICLE WARRANTY CERTIFICATE

Excluded from the 24/50 Vehicle Warranty are:

defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and services such as engine tuning, brake adjustment, replacement of air/oil/fuel filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

Covered by the 36/100 Powertrain Warranty are:

1. **ENGINE**
   a) **BASIC ENGINE ASSEMBLY PLUS**
   Intake manifold; exhaust manifold; super charger; turbo charger; intercooler; seals and gaskets; mountings; flywheel; E.F.I. components; carburettor/throttle body; fuel pump; injection pump; vacuum pump; injector nozzles; hoses and pipes for vacuum and EGR and PCV and fuel systems; fluid coupling; water pump.
   b) **EMISSION CONTROL**
   Air pump; air injection manifold; air suction manifold and valve; throttle positioner; modulator; catalytic converter; positive crank case ventilation system; air injection by air suction system; emission control system; exhaust gas re-circulation system.
   c) **ENGINE RELATED COMPUTERS**
   Engine control computer; emission control computer; E.F.I. computer; sensors.
2. **TRANSMISSION**
   Transmission; transaxle; transfer case assembly; torque converter; transmission control computer; mountings; seals and gaskets.
3. **CLUTCH**
   Cover Assembly
4. **FRONT / REAR AXLE**
   Axle Housing, Drive Shaft, Constant Velocity Joint, Propeller Shaft, Axle Hub, Axle Shaft, Bearing, Hub Bolts, Nuts, Oil Seals.
5. **SAFETY RESTRAINT**
   Seat Belts, Sensor Switch, Air Bag, Computer.

Excluded from the 36/100 Powertrain Warranty (but included in the 24/50 Vehicle Warranty) are:

Radiator; heater core; shock absorbers; springs and suspension mounting components; exhaust system; ignition coil/module; distributor; alternator; starter motor; fuel tank; transmission external linkages; wheels; instrumentation switches; spark plug leads plus any other components not specifically listed in Powertrain components shown above.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person. Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

PARTS AND ACCESSORIES WARRANTY

Holden warrants in respect of Holden Parts and Accessories ("Parts" and "Accessories") that it will make good by repair or at its option by replacement any defect occurring in any such Parts and Accessories within 12 months from the date of acquisition or in the case of a Part or Accessory installed in a vehicle by a Holden Dealer or Service Dealer, within 24 months or before such vehicle has travelled a distance of 50,000 km from the date of installation, whichever first occurs.

Excluded from this warranty are maintenance items such as filters, spark plugs, wiper blades, etc. which require replacement as part of normal vehicle maintenance.

Parts and Accessories Warranty Explanation

I ACCESSORIES - NEW VEHICLE

Accessories installed by a Holden Dealer or authorised Service Dealer to the new vehicle at the time of purchase are covered by the Holden New Vehicle warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

II PARTS AND ACCESSORIES - INSTALLED DURING NEW VEHICLE WARRANTY PERIOD

Parts and/or Accessories installed by the Dealer or authorised Service Dealer during the new vehicle warranty period are covered by the unexpired portion of the new vehicle warranty. After expiry of the new vehicle warranty, the Parts and Accessories warranty will apply until the expiration of 24 months/50,000 km (whichever occurs first) from date of fitment.

III PARTS AND ACCESSORIES - INSTALLED AFTER EXPIRY OF NEW VEHICLE WARRANTY

Parts and/or Accessories installed by the Dealer or Service Dealer after expiration of the new vehicle warranty are covered by the Parts and Accessories warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

Iv PARTS AND ACCESSORIES - PURCHASED AT RETAIL OR TRADE

Parts and/or Accessories purchased at trade or retail and installed by other than the Dealer or Service Dealer are warranted for 12 months from date of purchase. In these instances it is necessary to preserve proof of sale records to support warranty claims.

v PARTS AND ACCESSORIES WARRANTY EXCLUSIONS

Defects in tyres, these being warranted by their manufacturers, batteries which are covered for 12 months and maintenance service items, such as spark plugs, oil/air/fuel filters, coolant/inhibitor, wiper rubbers, brake pads, linings and discs, clutch linings, refrigerant, drive belts, distributor ignition points, bulbs and fuses, which are warranted against manufacturing defect existing at time of installation.

Where this Handbook specifies a schedule for replacement of parts, such parts are covered by parts warranty for the extent for the specified maintenance service interval.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden Warranty Service?

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer last page of this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. However, the scheduled 1,500 km service specified in chapter 12 of the handbook is provided 'labour free'. This is provided that your vehicle has been operated under *normal* operating conditions (refer page 12-3) and also that no modification (other than a modification made by, or at the direction of, Holden) has been made to your vehicle. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after the 1,500 km service.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after the 1,500 km service .
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after the 1,500 km service.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after the 1,500 km service.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery re-charging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after the 1,500 km service.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after the 1,500 km service.
- Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 1,500 km service.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS

Q 7. Are Holden parts and accessories covered by warranties?

If you buy a Holden part or accessory from an Authorised Holden Dealer it will be warranted by that Dealer, under the Holden parts and accessories Warranty, against defects in materials or workmanship for 12 months, from the date of purchase. In the case of a Holden part or accessory which has been installed in a vehicle by a Holden Dealer, it will be warranted for 24 months or 50,000 km (whichever occurs first) from the date of installation.

Defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and maintenance items such as filters, spark plugs, wiper blades and brake pads/linings require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

Q 8. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty Service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden Customer Assistance Service (refer last page of this chapter) to obtain guidance.

Q 9. How much will I have to pay for the scheduled maintenance services, detailed in Chapter 12 of this handbook?

Page 12-8 provides a list of the suggested labour time, parts and lubricants required to complete each service.

Q 10. Would my car's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your car.

Only the fluids and lubricants referred to in this handbook should be used.

HOLDENWISE

ONE FEATURE EVERY CAR MAKER WOULD LOVE TO BE ABLE TO OFFER

Holden, a lot more than just a car

As you'll soon discover, your new Holden is a lot more than just a car..... because every Holden comes with one very special feature, HoldenWise.

HoldenWise was created to offer Holden owners the best Australia wide customer care system possible. To do this we've drawn on all the technical resources and service skills of Holden. However, the key to our service is and always will be, people, with over 5,000 Holden service and parts specialists spread across the country. Thanks to them, we can offer HoldenWise Customer care at participating Holden Dealers with complete confidence.

Holden Specialists

HoldenWise technicians have been specially trained by the factory and have the experience in service and parts skills necessary to work on your car. As you can imagine Holdens today are a lot more sophisticated than they used to be, which means specialist service is essential.

Knowing Holdens so well, our technicians know exactly how long each service takes, which is why Holden dealers can offer fixed price servicing.

HoldenWise Fixed Price Servicing

HoldenWise has eliminated one of the big worries about car services, not knowing what the bill will be. Every participating Dealer service centre offers fixed price servicing. You need only ask and you'll be given a quote on how much the job will cost before it's started. So there are no nasty surprises when paying the bill.

Of course, if during the service, a problem is discovered, you'll be telephoned immediately before any more work is done.

You may be comforted to know that all participating Dealer work is covered by a workmanship warranty.

HoldenWise Workmanship Warranty

All services and repairs are covered by a 6 month/10,000 km Dealer warranty on workmanship. If a fault arises during that period, due to the service, your Holden Dealer will fix it. But workmanship isn't the only thing that is guaranteed.

HOLDENWISE

Holden Parts Warranty

The parts used in HoldenWise services are manufactured and tested to the same high standards as the originals, so Holden quality parts carry the same 24 month/50,000 km warranty when fitted by the Dealer. Naturally the warranty does not apply to normal maintenance parts like oil filters and spark plugs.

Whilst on the subject of parts, how often have you been told you'll have to wait a while until the parts can be found?

Thanks to the HoldenWise network, it's something you're unlikely to encounter at your Holden Dealer.

The HoldenWise Network

Most HoldenWise Dealer service and parts centres are computer linked through to the factory, which means you'll never have to wait an eternity for the right parts to be found.

What's more, with around 350 Dealers nationwide, you'll never be far from the same high standard of service.

Holden Accessories

Holden accessories are designed and approved as an integral part of your vehicle so you know they will fit and function precisely. When installed by the Holden Dealer to your new vehicle, Holden accessories are covered by the Holden warranty of 24 months or 50,000 km for your added protection.

Customer Assistance

Finally, we suggest you read the last page of this chapter for information on Holden Customer Assistance Service.

Unauthorised statements in relation to Holden products

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and the Company does not accept any such unauthorised action.

HOLDENWISE ROADSIDE SERVICE

3YEAR/ 24 HOUR ROADSIDE SERVICE

Our commitment to your satisfaction

HoldenWise Roadside Service is part of the unequalled commitment of Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing, and now beyond to the open road.

HoldenWise Roadside Service is your key to worry free motoring - one that covers you from your driveway to the open road, Australia-wide.

We hope the need never arises, but if it does, we'll be there to help through HoldenWise Roadside Service.

How does Holdenwise Roadside service work?

When you decide to buy a new Holden, you will have made a wise purchase decision and you will become a member of an exclusive club of Holden owners, covered by a 24 hour a day, 365 day a year, professional service for 3 years.

HoldenWise Roadside Service is provided by General Motors-Holden's Automotive Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of the Australian Automobile Association) the 'AAA'.

Which cars are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months service.

HoldenWise Roadside Service is extended to private and business cars, taxis, rental companies, all government and fleet operators.

What will Holdenwise roadside service do for me?

HoldenWise Roadside Service is designed to get you mobile after your vehicle has become disabled on a constructed road that is trafficable to normal two wheel drive vehicles.

Your vehicle must be disabled due to (non-collision related) mechanical failure/driver fault i.e. flat tyre, flat battery, locked out of the vehicle, or have simply run out of petrol.

Where permanent repairs are either not possible or practicable, temporary repairs will be carried out, or the vehicle towed to a Holden Dealer or approved repairer.

When do the benefits begin?

Cover begins the moment a Holden vehicle is purchased. An Interim Registration card entitles you to immediately receive all the benefits of HoldenWise Roadside Service.

Where can I get HoldenWise roadside service?

The professional service of HoldenWise Roadside Service is available to you at home, or at the roadside, anywhere in Australia, should you need it.

HOLDENWISE ROADSIDE SERVICE

What happens if my vehicle needs major repairs?

In the case of a breakdown where the vehicle cannot be made driveable or where temporary repairs may void the warranty, HoldenWise Roadside Service will provide towing to the nearest Holden Dealer, or if not geographically practicable, to the local 'AAA' constituent service facility. It is the responsibility of the owner to seek Holden's approval before any repairs are undertaken by a non Holden Dealership. This action will ensure the warranty remains valid.

During an after-hours' breakdown and where the metropolitan Holden Dealer or 'AAA' constituent's approved repairer is not open, the vehicle may be towed to any other location nominated by the driver not exceeding 20 kilometres from the point of breakdown.

Is there any membership or joining fee?

No, you will not be required to pay any fees. Every new Holden passenger car and light commercial vehicle owner is eligible for HoldenWise Roadside Service for 36 months.

What will HoldenWise roadside service cost me?

Materials, fuel and spare parts supplied during the service must be paid for at the time of the service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden warranty can be claimed by contacting the local Holden Dealer.

What happens if I sell my vehicle?

Holdenwise Roadside Service stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the member's kit.

Roadside 'ULTRA' - Prestige cars

Some luxury models receive the additional cover of 'Roadside Ultra'. This cover provides the new owner with all the benefits of HoldenWise Roadside Service along with some very valuable extras, including accommodation, alternative transportation, rental car and Australia-wide vehicle recovery.

HSV - Holden Special vehicles

Purchasers of Holden Special Vehicles automatically qualify for the coveted HSV Gold Lion package. This package provides the Gold Lion Member with all the benefits of HoldenWise Roadside Service and where applicable, the enhancement package 'Roadside Ultra'.

How do I call for service?

Simply call **1800 817 100**, the HoldenWise toll free number from anywhere in Australia.

The HoldenWise Roadside Service Kit contains full details of the service and any limitations that may apply. In the meantime further information is available from the toll free Holden Customer Assistance Service line, on **1800 033 349**.

HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE	Suttons Motors Arncliffe P/L - 93 Princes Highway
ASHFIELD	Muirs Holden - 252 Parramatta Road
BALGOWLAH	James Langfield Holden - 164 Condamine Street
BANKSTOWN	Princeton Holden - 466 Chapel Road
BLACKTOWN	West City Holden - 120~128 Sunnyholt Road
CABRAMATTA	John Abrahams Holden - 266~284 Hume Highway
CAMPBELLTOWN	Paul Wakeling Holden - Cnr Blaxland & Campbelltown Rds
CASTLE HILL	Windsor Road Holden - Cnr Victoria Ave/Windsor Rd
CHATSWOOD	Sundell Holden - Cnr Smith & Gibbes Street
CHULLORA	Suttons Motors (Chullora) P/L - Cnr Hume Hwy/Waterloo Rd
DEE WHY	Peninsula Holden - Cnr May & Mooramba Roads
GORDON	Sundell Holden - Cnr Pacific Hwy/McIntyre St
HOMEBUSH	Suttons Motors Homebush P/L - 112 Parramatta Road
LAKEMBA	Glen Fulton Holden Lakemba - 817 Canterbury Road
LIVERPOOL	A.C. McGrath & Co Pty Ltd - 411~419 Hume Highway
NEWPORT	Newport Car Care Centre - 340 Barrenjoey Road
PARRAMATTA	Boyded Holden Parramatta - 65 Church Street
PENNANT HILLS	Barry Smith Holden - 351~355 Pennant Hills Road
PENRITH	John Young Holden - 39~47 Henry Street
ROCKDALE	Peter Terry Holden - 571 Princes Hwy
ROSEBERY	Suttons City Holden - Link Road
RYDE	Hunter Holden - 603~605 Victoria Road
SPRINGWOOD	Springwood Holden - 15 Ferguson Road
ST LEONARDS	New Hunter Holden - 4 Herbert Street
ST. MARY'S	John Young Holden - Cnr Glossop & Harris Streets
SUTHERLAND	Greg Ball Holden - 499~505 Princes Highway
WAITARA	Suttons Motors Waitara P/L - 90 Pacific Hwy
WINDSOR	Hawkesbury Valley Holden - 18 Macquarie Street

N.S.W. Country

ALBURY	McRae White Holden - 647~657 Dean Street
ARMIDALE	New State Motors - 103 Rusden Street
BALLINA	Quayside Motors - Pacific Highway
BARHAM	Hall's Motors Pty Ltd - 44 Noorong Street
BATEMAN'S BAY	Surfair Holden - 30-32 Orient Street
BATHURST	Bathurst Motors Pty Ltd - 54 Durham Street
BEGA	South Coast Holden - Cnr Upper and Gibbs Sts
BELMONT	Challenge Holden - 444 Pacific Highway
BLAYNEY	Alan May Auto. Services - 98 Adelaide Street
BOMBALA	Delcott Engineering Pty Ltd - Maybe Street
BOOROWA	Boowowa Auto Repairs - 40 Marsden Street
BOURKE	Bourke Smash Repairs - 12 Richard Street
BREWARRINA	Lukas Holden - Bathurst Street
BROKEN HILL	Donlee Motors Pty Ltd - Cnr Galena & Rakow Streets
CAMDEN	Paul Wakeling Pty Ltd - 15 Cawdor Road
CANOWINDRA	Canowindra Motors - Gaskill Street
CARDIFF	Brian Kelly Holden - 35~39 MacQuarie Road
CASINO	Casino Holden - 142 Barker Street
CESSNOCK	Geoff Boyd Holden - 173~175 Wollombi Road

HOLDEN DEALERS

N.S.W. Country cont.

COFF'S HARBOUR	Geoff King Holden - Cnr Pacific Hwy and Thompson Roa
COOLAMON	Coolamon Motors - Cowabbie Street
COOMA	Summit Holden - 66~70 Sharp Street
COONABARABRAN	Allan Cooper Holden - John Street
COONAMBLE	Moody's Motors - 37 Aberford Street
COOTAMUNDRA	Jenkins Garage - 111 Wallendoon Street
COWRA	Waugoola Motors Pty Ltd - Kendal Street
CROOKWELL	Crookwell Autos - 114 Goulburn Street
DENILIQUIN	Burchfield Bros & Co - 112~114 End Street
DORRIGO	Phil Noble Motors - 46~48 Hickory Street
DUBBO	John Kierath - 54 Bourke Street
DUNGOG	Turner Holden - 248 Dowling Street
EDEN	Ron Doyle - 113 Imlay Street
FINLEY	Riverina Garage Finley - 104 Murray Street
FORBES	Paddison & Co - Cnr Rankin St & Court Lane
GILGANDRA	Gilgandra Holden - 3 Morris Street
GLEN INNES	Glen Severn Holden - 167 Grey Street
GLOUCESTER	Grahame's Garage Pty Ltd - 1 Park Street
GOSFORD	Noble Holden - Pacific Highway
GOULBURN	Geissler Motors - 279~298 Auburn Street
GRAFTON	Ken Casson Holden - 37~39 Turf Street
GRENFELL	Terry Carroll Motors Pty Ltd - 40 Alexandra Street
GRIFFITH	Leo Franco Holden - 164~166 Yambil Street
GUNNEDAH	Namoi Valley Motors - 48 Barber Street
GUYRA	Burgess Garage Pty Ltd - 131~143 Bradley Street
HARDEN	Ginty & O'Leary - Cnr Station & Albury Streets
HAY	Royce Curtis Motors - 168 Lachlan Street
HOLBROOK	Lieschke Motors Pty Ltd - Albury Street
INVERELL	Gaukroger Sales Pty Ltd - Vivian Street
JERILDERIE	Jerilderie Motors - Jerilderie Street
KANDOS	Chrisfield Holden - 11 Angus Street
KATOOMBA	Katoomba Holden - 136 Great Western Highway
KEMPSEY	Thoroughgood Motors - 118~132 Belgrave Street
KIAMA	Glen Fulton Holden - 35~41 Collins Street
KYOGLE	O & H Holden - 128~134 Summerland Way
LEETON	John Ryan Holden - 47 Pine Street
LISMORE	John Chant Motors Pty Ltd - 21~27 Carrington Street
LITHGOW	Lithgow City Holden - 255 Main Street
MACKSVILLE	Eastland Auto Centre - 18~22 Cooper Street
MACLEAN	O'Halloran Motors - 175 River Street
MAITLAND	Heritage Holden - 557~567 High Street
MOREE	Keith Haddad Holden - Cnr Boston & Heber Streets
MORUYA	Surfair Holden - 88 Vulcan Street
MOSS VALE	Vagg & Partners Holden - 160~162 Argyle Street
MULLUMBIMBY	Tony Carsburg Holden - 2 Argyle Street
MUDGEE	Ross Granata Motors - 47~55 Market Street
MURWILLUMBAH	Tweed Motors Murwillumbah - 29 Prospero Street
MUSWELLBROOK	Upper Hunter Motors Pty Ltd - 116 Bridge Street
NAMBUCCA HEADS	Nambucca Holden - Mann Street

HOLDEN DEALERS

N.S.W. Country cont.

NARRABRI	Allan Cooper Holden - 181 Maitland Street
NARROMINE	L.E. Stanley Pty Ltd - Dandaloo Street
NEWCASTLE	Newcastle City Holden - 745 Hunter Street
NOWRA	Glendon Motors Holden - 301~313 Princes Highway
ORANGE	Canobolas Holden - 348 Summer Street
PARKES	Go Motors of Parkes - Cnr Mitchell & Clarinda Sts
PEAK HILL	S.Leary & Sons Pty Ltd - Mingelo Street
PORT MACQUARIE	Todd Holden - 16~20 Clarence Street
QUIRINDI	Browning Motors - 82 Henry Street
SCONE	Upper Hunter Motors (Scone) - 100 Liverpool Street
SINGLETON	Lancaster Holden - 80 John Street
TAMWORTH	Kensell's Holden - Cnr Bourke St & Kable Ave
TAREE	Hardes Auto House - Beeton Parade
TEMORA	Rod Lovering Holden - 2 Stockinbingal Road
TENTERFIELD	Sexton & Green (Sales & Service) P/L - 148 Rouse Street
TUNCURRY	Great Lakes Holden - 144 Manning Street
TUMUT	Nancarrow Holden - 35 Fitzroy Street
TWEED HEADS	Tweed Motors Pty Ltd - 75~79 Pacific Highway
ULLADULLA	Alan May Holden - 150 Princes Highway
WAGGA WAGGA	Wagga Motors Pty Ltd - 32 Dobney Avenue
WALCHA	Bowden's Garage Pty Ltd - Derby Street
WALGETT	Walgett Garage Pty Ltd - 81 Wee Waa Street
WALLA WALLA	D.E. Lieschke & Son Pty Ltd - Commercial Street
WARIALDA	Roger Moore - Hope Street
WARILLA	Wilson's Warilla Pty Ltd - 29 Shellharbour Road
WARREN	Fuller Bros - Dubbo Street
WEE WAA	Allan Cooper Holden - Rose Street
WELLINGTON	Gersbach's Garage Pty Ltd - 92 Lee Street
WEST WYALONG	West Wyalong Motors - 183 Main Street
WOLLONGONG	Dwyers City Holden - 31~33 Crown Street
WYONG	Barry Robertson Holden - 172 Pacific Highway
YASS	Bill Nesbitt Holden - 221 Comur Street
YOUNG	Harden & Geelan Holden - 48 Boorowa Street

A.C.T.

BELCONNEN	Gerald Slaven Holden - Josephson Street
BRADDON	Beazley & Bruce Holden - 44 Mort Street
PHILLIP	Commonwealth Motors Pty Ltd - 158 Melrose Drive

Tas.

BURNIE	Motors Burnie - Marine Terrace
DEVONPORT	Motors Devonport - Victoria Parade
HOBART	Motors Pty Ltd - 179 MacQuarie Street
KING ISLAND	King Island Motors Pty Ltd - Netherby Road, Currie
LAUNCESTON	Motors Launceston - 93~95 Elizabeth Street
SMITHTON	Motors Smithton - Cnr Nelson & Gibson Street
ULVERSTONE	Motors Ulverston - 97~101 Reibey Street

HOLDEN DEALERS

Vic. Metropolitan

BERWICK	Barry Bourke Holden - 755 Princes Highway
BUNDOORA	Watson Holden - 413 Grimshaw Street
BURWOOD	Penfold Holden - 63 Burwood Highway
CAULFIELD	Booran Holden - 1049 Glenhuntly Road
CHELSEA	Harrison Holden - 370 Nepean Highway
CHELTENHAM	Booran Holden - 1212 Nepean Highway
DANDENONG	Booran Holden Dandenong - 25 Lonsdale Street
DONCASTER	Doncaster Holden - 636~640 Doncaster Road
ELSTERNWICK	Reg Hunt Holden - 77 Nepean Highway
ESSENDON	Preston Motors (Essendon) P/L - 205~211 Keilor Road
FAWKNER	Mantello Holden - 1263 Sydney Road
FERNTREE GULLY	Neilson Holden F.T.G. - 980 Burwood Highway
FOOTSCRAY	Alan Mance Holden - 435 Barkly Street
FRANKSTON	Noel Gould Holden - 140 Dandenong Road
GEELONG	R & B Smith Holden - 510 Moorabool Street
GEELONG	Winter & Taylor (Sales) P/L - 23 Cavendish Street
GLEN WAVERLEY	Geoff Brady Holden - 565~577 Springvale Road
HASTINGS	Westernport Holden - 2147 Flinders Road
LILYDALE	Noel Dight Holden - 344 Main Street
MORNINGTON	John Collins Holden - 976 Nepean Highway
OAKLEIGH	Garry & Warren Smith - 1575 Dandenong Road
PRESTON	Ralph D'Silva Holden - 573~603 High Street
RINGWOOD	Patterson Cheney Holden - 45~57 Maroondah Highway
SOUTH MELBOURNE	Patterson Cheney Holden - 168 Sturt Street
SOUTH YARRA	Penfold Holden - 681 Chapel Street
SUNSHINE	Kevin Dennis Holden - 272 Ballarat Road
WERRIBEE	Ballan Holden - 56 Princes Highway
WEST MELBOURNE	Reg Hunt Holden - 577 King Street

Vic. Country

ALEXANDRA	GK & JH Radford - 79 Greints Street
ARARAT	David Reid Motors - High Street
BAIRNSDALE	The Big Garage - 199 Main Street
BALLARAT	Peter Amor Motors - 209~211 Gillies Street
BENALLA	Arnott's Motors - 88~90 Bridge Street
BENDIGO	Ron Poyser Holden - Cnr High & Myrtle Streets
BIRCHIP	R.L. & C.J. Bales - 38 Cumming Avenue
BOORT	Jaron Motors - 55 Godfrey Street
CAMPERDOWN	Camperdown Auto Parts - 96 Manifold Street
CASTERTON	Coxons Holden - 139 Henty Street
CHARLTON	K.V. Charlton - 70 High Street
COBRAM	Neville Mustica Motors - Murray Valley Hwy
COHUNA	Hare Motors Holden - 105~107 King George Street
COLAC	Parker Bros. Motor Co - 224 Murray Street
DAYLESFORD	K.R. Little - Vincent Street
DIMBOOLA	Westerfield Motors Pty Ltd - 64 Lloyd Street
DONALD	O.A. Shilton & Sons Pty Ltd - 5 Wood Street

HOLDEN DEALERS

Vic. Country cont.

ECHUCA	Echuca Motors - 1 Nothern Highway
EUROA	Croxford Holden - 41 Clifton Street
FOSTER	Ray Dower Motors - 78 Main Street
HAMILTON	Peter Sandow Motors Pty Ltd - 261 Gray Street
HOPETOUN	Hopetoun Motors - 78 Lascelles Street
HORSHAM	Ivan Morrow Motors Pty Ltd - 22 O'Callaghans Street
KANIVA	Kaniva Motors - 82 Commercial Street
KOOWEERUP	G & J Light Mechanical repairs P/L - Station Road
KORUMBURRA	Peter Dunlevie Holden - 42 Commercial Street
KUNUNURRA	Elgee Holden - 231 Bloodwood Drive
KYABRAM	D'Alberto Holden - 60 McEwen Road
KYNETON	Mollison Motors Pty Ltd - 167 Mollison Street
LEONGATHA	Gleeson Holden - 37~43 Bair Street
MAFFRA	Maffra Holden - Johnson Street
MANSFIELD	Martin's Garage - 52~54 Chenery Street
MARYBOROUGH	Graham Jacka Holden - 35 Nolan Street
MILDURA	Stuart & Harrison (Sales) Pty Ltd - 24~32 Deakin Avenue
MORTLAKE	W. Christian (Mortlake) Pty Ltd - 107 Dunlop Street
MURRAYVILLE	Peers Motors - McKenzie Street
NATHALIA	BHB Motors - 6 Blake Street
NHILL	Ivan Morrow Motors Pty Ltd - 71~73 Nelson Street
NULLAWIL	Nullawil Motors & General Engineers - Calder Highway
ORBOST	Merlin Motors - Stanley Street
PORTLAND	Reynolds Holden - Henty Highway
QUAMBATOOK	Quambatook Auto Services - 32 Gutherie Street
ROCHESTER	Bruce Hocking Motors Pty Ltd - 71 Moore Street
ROBINVALE	Stuart & Harrison (Sales) Pty Ltd - cnr Herbert & George Sts
RUTHERGLEN	Jasper Bros Pty Ltd - 62 Main Street
SALE	Keith Boyd Holden - 273 York Street
SEALAKE	Paddy Smith Holden - Calder Highway
SEYMOUR	Neil Beer Holden - 49 Emily Street
SHEPPARTON	Parker Bros. Auto Co. - Benalla Road
STAWELL	Tonkin Motors - 71~73 Main Road
SWAN HILL	Swan Hill Holden - 94~102 Campbell Street
TALLANGATTA	Crispin Motors - 21 Towong Street
TIMBOON	Timboon Motors - Bailey Street
TRARALGON	Colin Watson Holden - Princes Highway
UNDERBOOL	A.J. Gloster & Sons - Cotter Street
WANGARATTA	Alan Capp (New Cars) Pty Ltd - Tone Road
WARRACKNABEAL	Amor Motors Aubrey Truck Sales - 33 Woolcock Street
WARRAGUL	Vin Rowe Holden - 3 Endeavour Street
WARRNAMBOOL	Callaghan Motors Pty Ltd - 133~137 Fairy Street
WONTHAGGI	J.P. Holden - 2 Murray Street
YARRAM	John Palmer Holden - 150 Commercial Road
YARRAWONGA	Pigdons Pty Ltd - Belmore Street

HOLDEN DEALERS

Qld. Metropolitan

ALBION	Bill Harrison Car Sales - Frodsham Street & Crosby Road
ASPLEY	Zupps Aspley Pty Ltd - 1454 Gympie Road
CAPALABA	Oldfield Holden - 103 Redland Bay Road
INDOOROOPILLY	Westpoint Holden - 440 Moggill Road
IPSWICH	Ross Llewellyn Holden - 246 Brisbane Road
MOOROOKA	John Sivyer Holden - 1060 Ipswich Road
MT. GRAVATT	Zupps Motors Pty Ltd - 1310 Logan Road
NEWSTEAD	Eagers Retail Pty Ltd - 95 Breakfast Creek Road
PETRIE	Petrie Holden - 1059 Gympie Road
REDCLIFFE	Village Holden - 425 Elizabeth Avenue
SPRINGWOOD	Motorama Holden - 3455 Pacific Highway
WINDSOR	Leach Holden - 143 Newmarket Road
WOOLLOONGABBA	Armstrong Holden - 73 Ipswich Road
WYNNUM	Doug Barton Holden - 200 Tingal Road

Qld. Country

ATHERTON	Redding Motors Pty Ltd - 2 Cook Street
AYR	Honeycombes Sales & Service - 213~217 Queen Street
BEAUDESERT	Lawson Holden - 57 Brisbane Street
BOWEN	McDermott Holden - 98 Herbert Street
BUNDABERG	Ross Gray Holden - Takalvan Street
CABOOLTURE	Beecham Holden - Bribie Island Road
CAIRNS	Ireland Holden - 227~233 Mulgrave Road
CALOUNDRA	Caloundra City Holden - Caloundra Road
CHARLEVILLE	Alan Dobbin Holden - 129 Alfred Street
CHARTERS TOWERS	Peters Holden - 57 Mosman Street
CHINCHILLA	Ainsworth Motors & Machinery Pty Ltd - 55 Chinchilla Street
CLONCURRY	Cloncurry Motors - 59 Scarr Street
CROWS NEST	Dennis Nissen Motors - 14 William Street
DALBY	Johnson's Holden - 36 Drayton Street
EMERALD	Orion Agriculture Supplies Pty Ltd - Clermont Street
GATTON	Gatton Auto Centre - 67 Railway Street
GLADSTONE	Andersons Auto City - 56 Yarroon Street
GYMPIE	Madills - 35 Mellor Street
INGHAM	Devietti Holden - 99 Lannercost Street
INNISFAIL	I.C. Taylor Pty Ltd - 117 Edith Street
JULIA CREEK	Julia Creek Motors Pty Ltd - Burke Street
KILCOY	Hobart's Garage - 58 Mary Street
KINGAROY	John Dundas Pty Ltd - 38 King Street
LAIDLEY	Buhse's Garage Pty Ltd - 5 Spicer Street
LONGREACH	Longreach Motors - 33 Swan Street
MACKAY	Pioneer Holden - Cnr Gordon & Wellington Streets
MAROOCHYDORE	Sunco Holden - Wises Road
MARYBOROUGH	Whitaker Holden - 109~111 March Street
MOUNT ISA	Barkly Motors Pty Ltd - Marian Street
MURGON	Clifton Motors - McAllister Street

HOLDEN DEALERS

Qld. Country cont.

NAMBOUR	Kallenbach Motors - 139 Howard Street
NANANGO	Nanango Motors Pty Ltd - 72~74 Drayton Street
NOOSAVILLE	Madill's Noosa - Cnr Weyba Road and Mary Street
PROSERPINE	Crossley Car Sales Whitsunday Pty Ltd - 162~164 Main Street
QUILPIE	Quality Motors - Boonkai Street
ROCKHAMPTON	Lawrence's - 327 Richardson Road
ROMA	Maranoa Multi Agencies - Bowen Street
SOUTHPORT	Lockhart Holden - Cnr Nerang Road & Olsen Avenue
SPRINGSURE	Springsure Motors - Eclipse Street
ST. GEORGE	Halpin Motors - 39~41 Grey Street
STANTHORPE	Central Motors - 42 Maryland Street
TOOWOOMBA	Toowoomba Holden - Cnr James & Hume Streets
TOWNSVILLE	Tony Ireland Holden - 87~91 Charters Towers Road
TULLY	Island Coast Holden - 12 Richardson Street
WARWICK	Deighton Motors Pty Ltd - Grafton Street

N.T.

ALICE SPRINGS	Kittle Holden - Cnr Wills & Railway Terrace
DARWIN	Kerry Holden - 21~25 Stuart Highway
KATHERINE	Master Motors - 3 Second Street

HOLDEN DEALERS

S.A. Metropolitan

ADELAIDE	City Holden - 223 Grenfell Street
ELIZABETH	Peter Page Holden - Elizabeth Way
MALVERN	Claridge Holden - 361~367 Unley Road
PORT ADELAIDE	Smiths of Port Adelaide - 271 Commercial Road
REYNELLA	Southgate Holden - 49~59 Main South Road
SOMERTON PARK	Hamilton Holden - 278~288 Brighton Road
THEBARTON	Metro Holden - 1 Port Road
VALLEY VIEW	Plaza Holden - 817~839 North East Road

S.A. Country

BALAKLAVA	Balaklava Motors - 4 Wallace Street
BERRI	Rosenthal Bros Pty Ltd - Vaughan Terrace
CEDUNA	Beck Motors Pty Ltd - Poynton Street
CLARE	Brian Holmes Holden - 7 Old North Road
CLEVE	Herbert Motors Pty Ltd - Rudall Road
CUMMINS	Trigg & Wedd - 3 Umlauf Street
CRYSTAL BROOK	Crouch Rural Pty. Ltd - 26 Brandis Street
GAWLER	Steinborner Holden - Cnr Murray & Bridge Sts
KADINA	J.H. Rosewarne Pty Ltd - Graves Street
KEITH	Farmers Centre - McBain Street
KINGSCOTE	Roberts Motors - Telegraph Road
KINGSTON	Lecornu's Service Garage - Agnes Street
LOXTON	Flight Motors Pty Ltd - Bookpurnong Terrace
MAITLAND	Maitland Motors Pty Ltd - 58 Robert Street
MALLALA	Curnow's Garage Pty Ltd - Balaklava Road
MENINGIE	Peter Hood Holden - Cnr Princes Highway & Coonalpyn Road
MILLICENT	Dennis Cowling Holden - 98 George Street
MT. BARKER	Gilbert Motors - 57 Adelaide Road
MT. GAMBIER	O.G. Roberts & Co - Jubilee Highway West
MURRAY BRIDGE	Dutton Motors Pty Ltd - 7 Adelaide Road
NARACOORTE	Kingcraig Motors Pty Ltd - 158~164 Smith Street
OLYMPIC DAM	Lavrick Engineering - Olympic Way
PORT AUGUSTA	Ken Feltus Holden - 38 Stirling Road
PORT LINCOLN	City Motors - King Street
PORT PIRIE	Spencer Holden - 50 Ellen Street
RENMARK	Rosenthal Motors Pty Ltd - Ral Ral Avenue
STRATHALBYN	Gilbert Holden Strathalbyn - High Street
TANUNDA	Hage & Co Pty Ltd - 50 Murray Street
VICTOR HARBOR	Southern Motors Holden - 5 Victoria Street
WAIKERIE	Riverside Holden - 6 Crush Terrace
WHYALLA	Ken Feltus Holden Whyalla - 74 Essington Lewis Avenue
YANKALILLA	Martin Motors Pty Ltd - Main Street
YORKETOWN	Southway Holden - 7 Minalaton Road

HOLDEN DEALERS

W.A. Metropolitan

CANNINGTON	Brian Gardner Holden - 1308~1324 Albany Hwy
FREMANTLE	Shacks Holden - 64 Queen Victoria Street
GOSNELLS	Lance Gibbons Holden - 2325 Albany Highway
MANDURAH	Mandurah Holden - 283 Pinjarra Rd
MELVILLE	Melville Motors Pty Ltd - 532~540 Canning Highway
MIDLAND	Goldy Holden - 161 Great Eastern Highway
MORLEY	Metro Motors - 212 Walter Road
NAVAL BASE	Shacks Cockburn - 15 Rockingham Road
OSBORNE PARK	North City Holden - Cnr Scarborough Beach Rd & Harborne St
PERTH	City Motors - 505 Newcastle Street
VICTORIA PARK	Youngs Holden - 529 Albany Highway
WANNEROO	Phoenix Holden - 5 Berriman Drive

W.A. Country

ALBANY	Manley Stanwell Holden - 92~98 Earl Street
BRIDGETOWN	Kordics Bridgetown - Hampton Street
BROOKTON	Coote Motors - Robinson Road
BROOME	Norwest Holden - McPherson Street
BUNBURY	Bunbury Holden - 3 Sandridge Road
BUSSELTON	Fennessy Holden - 2~4 Bussell Hwy
CARNAMAH	T & H Walton Stores Pty Ltd - Robertson Street
CARNARVON	North West Autos - 175 Robinson Street
COLLIE	Station Motors - 102 Throssell Street
CORRIGIN	Farmpower - Kunjin Road
CRANBROOK	Cranbrook Motors - 11~13 Gathorne Street
DALWALLINU	Reid & Inglis - Johnson Street
ESPERANCE	Dempster Holden - Norseman Road
GERALDTON	Youngs Motors - Cathedral Avenue
GNOWANGERUP	G.S. Hendry & Co Pty Ltd - Yougenup Street
HARVEY	Stockman Holden - 111 Uduc Road
KALGOORLIE	Kyle Motors - 114 Boulder Road
KARRATHA	Intown Autos - 1 Harwood Way
KATANNING	Edwards Holden - 159 Clive Street
KELLERBERRIN	Dowding Motors - 1 Mitchell Street
MANJIMUP	Manjimup Automotive Services - Pritchard Street
MERREDIN	Carson's of Merredin - 112 Barrack Street
MOORA	Frank Lewis Holden - Gardiner Street
NAREMBEEN	Aquip Machinery - 20 Churchill Avenue
NARROGIN	Marley White & Co - Federal Street
NORTHAM	Withnell Motors - 58 Fitzgerald Street
WAGIN	Marley White & Co - Tudor Street
WONGAN HILLS	Agro Machinery Pty Ltd - Fenton Street
WYALKATCHEM	Agro Machinery - Railway Terrace

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

☞ Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

☎ The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9 646 5466. Outside the Melbourne Metropolitan area, the number is 1800 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9 797 7341

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

✉

The Manager
Holden Customer Assistance Services
GPO Box 343C
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

✍

- Your name and address
- Telephone numbers, both private & Business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.)
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

CHAPTER 10

Towing

Page

10-2 Loading the car
10-3 Roof rack loads
10-4 Superlift shock absorbers
10-5 Towing
10-6 Towing equipment
10-8 Towing precautions
10-9 Kerb weight

LOADING THE CAR

Overloading is a safety hazard and could also shorten the life of your car. The recommended carrying capacity of your car is:

SEDAN - 5 occupants plus 68kg luggage (**408kg** load in total), with bucket seats.

UTE - **720kg** total load (including the weight of passengers).

WAGON - 5 occupants plus 91kg luggage (**431kg** load in total), with bucket seats.

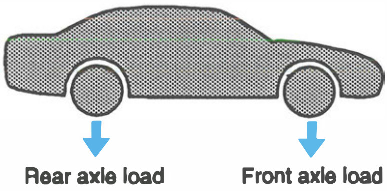
- When the Holden accessory 3rd seat is fitted, the load capacity of the wagon is modified as follows:

  One passenger for each seat belt, up to 8 years old (or 26kg) in 3rd seat plus 7kg luggage.

The above load carrying capacity is dependant on the weight being distributed evenly (as indicated above). You cannot carry the maximum amount if most of the weight is in the boot.

If unsure, the car should be weighed at a weigh bridge, taking care that the MAXIMUM FRONT and REAR AXLE LOADS are not exceeded.

Maximum front and rear axle loads



Sedans and wagons	1,025 kg
Utes	1,260 kg

Sedans and wagons	900 kg
Utes	1005 kg

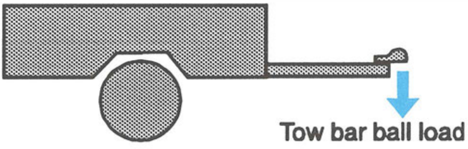
LOADING

Tow bar ball load

The "tow bar ball load" is the weight on the towing vehicle.

Ideally, the ball load should be 10% of the packed trailer/caravan weight. This can be adjusted by correctly packing the contents of the trailer/caravan. If the ball load is too light or too heavy, the steering and handling of the car will be affected.

The load on the tow bar ball should be included as luggage weight, when working out the load your car is carrying.



Roof rack loads

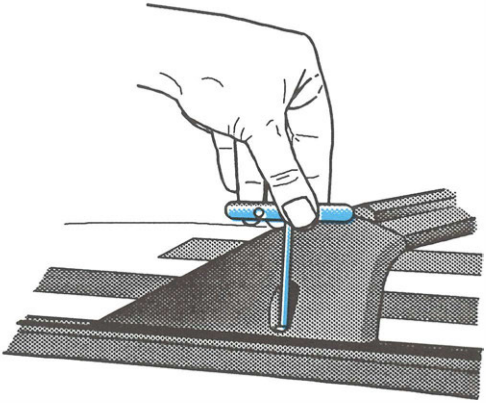
Roof rack loads alter the handling of a car, due to a change in the centre of gravity. When carrying loads on the roof rack avoid abrupt swerving or sharp steering. The load (which should not exceed 68kg) should be evenly distributed.

The weight on the roof rack should be included as luggage weight, when working out the load your car is carrying.

The crossbars on the wagon roof rack can be adjusted using a special key, provided in the glovebox of your new car.

To adjust, loosen the screws at both ends of the crossbar with the key. Move the crossbar backwards or forwards as required, then tighten the screws with the key.

The tie down anchors on the roof rack can be adjusted in the same way.



2,100 kg towing

When all the required equipment for towing 2,100kg is fitted (see page 10-7) the carrying capacity of the car is increased. The MAXIMUM FRONT AXLE LOAD is increased to 1,000 kg and the MAXIMUM REAR AXLE LOAD is increased to 1,260 kg. *Ensure that the load equalizer hitch is correctly distributing the heavier tow bar ball load and that superlift shock absorbers are adjusted correctly.*

"ADD-ON" EQUIPMENT

Front of car

Owners intending to fit bull bars etc. should first check with their Holden Dealer. Depending on the weight of the equipment, it may be necessary to fit heavier duty springs and struts to help avoid potential damage to the front underside of the car when driving on rough road conditions.
Note: Cars that have been fitted with the optional Country Pack will have these heavy duty front suspension parts fitted as part of the package.

Fitting driving lights, insect screens

When fitting these accessories be careful not to restrict air flow through the condenser and radiator, otherwise engine overheating and/or poor air conditioning performance may result.

Fitting bull bars

Holden only recommends use of the Holden approved bull bar, available from your Holden Dealer, as it has been compatibility tested with your vehicle's design, including the Holden air bag.

Fitting other types of bull bars may affect air bag performance and engine cooling.

Bull bars should not be fitted to vehicles operating in suburban areas, as they may increase the risk of injury to a pedestrian in the event of a collision. Bull bars are only recommended for country/outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Mudflaps

It is strongly recommended to have mud flaps fitted if the car is driven extensively on unsealed roads.

Booster springs and superlift shock absorbers

The use of booster springs or superlift shock absorbers DOES NOT increase the carrying capacity of the car. Maximum loads for your car must NOT be exceeded, otherwise, overloading of axle parts may shorten the life of your car.
Superlift shock absorbers do, however, allow adjustment of the car's height, so that you have improved handling and better ground clearance in rough terrain when the car is heavily loaded.
Ute models: Superlift shock absorbers should not be fitted to utes, as these are fitted with a brake load sensing valve. The superlift shock absorbers would lift up the ute, thereby upsetting the brake load sensing valve which, in turn, reduces brake effectiveness.

CAUTION:

Do not drive with superlift shock absorbers inflated when the car is not loaded, as car handling is affected. The car should be at normal level.

Always ensure that superlift air pressures are within the minimum and maximum pressures shown on the tag attached to the air pressure valve.

TOWING

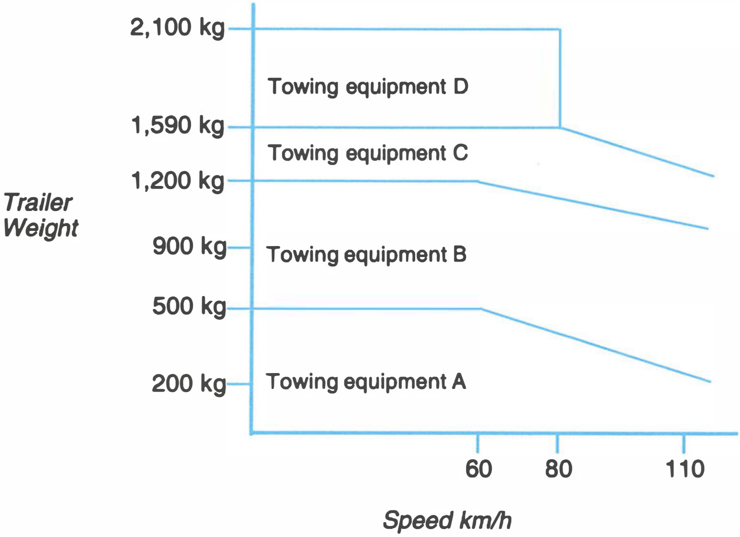
Your car is designed primarily as a passenger car, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Your car will fall into either category A, B, C or D depending on travelling speed and trailer/caravan weight. Then refer to Table 2 to determine which equipment is specified as essential and which equipment is preferable to your needs.

It will be seen that loads should be reduced when driving at higher speed, and that when towing loads in category D speed must not exceed 80km/h.

Never exceed the loads given for the particular towing equipment fitted to your car.

Table 1



Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the car arising from the use of such equipment.

TOWING EQUIPMENT

Table 2

A	Essential	Holden 1,200kg rating tow bar (for sedan, wagon or ute)
	Essential	Holden trailer wiring harness
	Preferable	Holden auto trans oil cooler (if car fitted with auto trans)
B	Essential	Holden 1,200kg rating tow bar (for sedan, wagon or ute)
	Essential	Holden trailer wiring harness
	Essential	Load equalizer hitch when towball loads are in excess of 75 kg (not available from Holden)
	Essential	Trailer brakes, by State Law
	Preferable	Automatic transmission
	Essential	Holden auto trans oil cooler (if car fitted with auto trans)
	Preferable	Holden steering oil cooler
C	Essential	Holden 1,590kg rating tow bar (for sedan, wagon or ute)
	Essential	Holden trailer wiring harness
	Essential	Heavy Duty Tow Bar Equalizer Hitch complying with SAE J684E or F Class2
	Essential	Trailer Brakes - electric or hydraulic, required by State Law
	Preferable	Automatic transmission
	Essential	Holden auto trans oil cooler (if car fitted with auto trans)
	Essential	Holden Body Side Brace (for short wheel base sedans only)
	Essential	Holden steering oil cooler

TOWING EQUIPMENT

Table 2 cont.

D	Essential	Sedan or wagon, fitted with automatic transmission
	Essential	Holden automatic transmission oil cooler
	Essential	Holden 2,100kg rating tow bar
	Essential	Holden power steering oil cooler
	Essential	Holden trailer wiring harness
	Essential	Heavy duty tongue and equalizer Hitch
	Essential	Holden Body Side Brace Package (for short wheel base sedans only)
	Essential	Trailer Brakes - electric or hydraulic
	Essential	Superlift shock absorber kit
	Essential	Centre bearing heat shield
	Essential	Intermediate muffler heat shield (for 5 link suspension only)
	Essential	Silicon figure 8 exhaust rings (4 required for IRS, 2 required for 5 link)
	Essential	Heavy duty radiator (for 3800 V6 engine only)
	Essential	Synthetic differential oil (for 3800 V6 engine only)

Tow bar ball load (see page 10-3 for explanation) must not exceed 120kg for category A and B and must not exceed 160 kg for category C or 210kg for category D, even if a Load Equalizer Hitch (required when ball load exceeds 75kg) is used.

When towing up to the maximum of 2,100kg, the minimum cold inflation pressure for rear tyres is 260kPa (37psi) for IRS and 240 kPa (34psi) without IRS.

TOWING PRECAUTIONS

- Your car will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.
- Have your car correctly maintained and serviced.
- Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- You should have an extended-arm mirror on both sides of your car.
- Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizer hitch is not used.
- Use a lower gear, rather than your brakes when descending steep hills.
- If your caravan or trailer moves off the road behind you, allow the left wheels of your car to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.
- *Automatic transmission:* To stop the transmission constantly changing between 3rd and 4th gear, it is recommended that the T-bar be in Drive with the "Power" mode selected when towing. "Economy" mode may be selected under ideal conditions, i.e. driving at a constant speed on flat roads, with a small trailer or caravan. Some drivers may prefer to select "3" position in "Power" or "Economy" modes when towing.
- When towing, your tyres should be inflated to the maximum recommended pressure. Refer to the tyre placard under the bonnet, on the radiator support panel.
- Do not use axle-mounted hitches. They can cause damage to the axle housing, wheel bearings, wheels and tyres.
- Trailer brakes are required on trailers weighing over 500kg when loaded. Some States require trailer brakes on loads less than 500kg.
- It is permissible to tap into the rear brake system with a signal generating unit using not more than 0.21cc of fluid displacement during the operation of the brakes. It must not be fitted to the front brake system.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the car.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.

TOWING

Running-in when towing

It is recommended that you drive your new car for at least 1,500km before towing. If you must tow before this do not exceed 80km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

Car maintenance

More frequent car maintenance is required when using your car to pull a trailer or caravan, refer page 12-3. For example, if an automatic transmission is fitted, the transmission fluid should be changed every 12 months or 20,000km.

Kerb weight (kg)

Some States specify that the load being towed must not exceed the weight of the car. The kerb weights provided below, are for a standard unloaded car, without options but with a full tank of fuel.

	3800 (V6) engine	5000 Injection (V8) engine
Executive sedan	1387	1448
Executive wagon	1426	1477
Berlina sedan	1423	1463
Berlina wagon	1466	1472
Calais	1493	1539
Ute	1359	1443

CHAPTER 11

Cleaning

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INTERIOR CLEANING

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INTERIOR CLEANING

CAUTION: Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Be sure the car is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Removed the stains as soon as possible after they have been made. If they are allowed to remain for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern:

1. Use luke warm water and soap, or Holden Velour Fabric and Vinyl Cleaner and work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

INTERIOR CLEANING

Cloth

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Leather

To remove surface dust and grit, regularly wipe leather with "Softly" or similar, mild detergent in warm water using a soft cloth or sponge. Clean leather every 3 months with a mild saddle soap and a damp soft cloth, to remove in-ground dirt which is not visible. Allow leather to dry naturally and apply a colourless beeswax dressing.

Do not use detergents, solvents, abrasives, spray packs or unidentified leather cleaners or suede cleaners.

Seat belts

Clean seat belts with a mild, non-abrasive soap and luke warm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

The interior glass area of the car should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any car glass, as they can cause scratches.

WASHING

CAUTION: Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

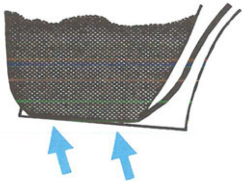
Before washing the paint check that the door drain holes and rocker sill vents are not blocked. The underbody should also be cleaned to remove deposits of mud and corrosive products.

Underbody cleaning

The effects of salt etc. from road surfaces can cause rust under the car. The underbody should be hosed with plain water whenever the car is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out the underbody where dirt etc. may have collected.

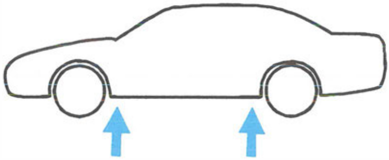
Door drain holes

It is important that the drain holes at the bottom of the door panels are checked to make sure that they are free of dirt which could trap water inside the panels. Clogged drain holes can be cleaned with a small screwdriver and these drain holes are angled back towards the rear of the car.



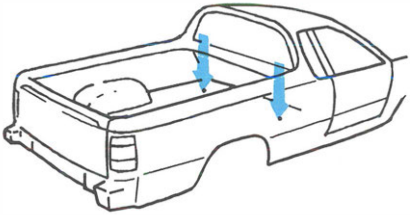
Rocker sill vents

Vents should be regularly checked to see that they are clear of blockage, using a blunt instrument. These vents are formed as cutouts in the sheet metal along the bottom edge of the rocker sill.



Floor drain holes (Ute)

Two drain holes are located on the tonneau floor, behind the cabin. Regular cleaning with a hose or similar will ensure that the holes remain clear, so that water can drain away from the loading area.



EXTERIOR CLEANING

Washing paint

The paint will stay bright and new looking for years with little or no polishing, provided it is given a reasonable amount of regular washing to keep off road grime.

Washing not only removes dirt and road grime, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, bird droppings, insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint. These should be removed without delay, using an effective removal agent.

Regular washing

If the car is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois or clean sponges. Hose the car first to remove as much of the grit and grime as possible before swabbing the surface.

Avoid washing the car under bright sunlight on hot days, as this will give a streaky paint finish, caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the car after washing.

Holden Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the foreign matter has been removed.

Warnings

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to automotive paint.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

EXTERIOR CLEANING, WHEELS & TYRES

Insect spots

Insect spots on the paint can be washed off with a solution of 1 litre of water and 110 grams of dissolved baking soda (Bicarbonate of Soda). Flush the washed parts with clean water.

Polishing

You may wish to polish your car to provide maximum protection against road dirt and industrial fall out etc. Polish may be also be required to remove foreign matter not removed when washing, which may build up over a period of time.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Painted plastic bumpers or body side mouldings may be cleaned and polished according to the instructions given above for the paint.

Paint inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust “creep” will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the car gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the car is exposed to elements for prolonged periods. The car therefore should be garaged whenever possible.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic’s hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden Tyre and Bumper Shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Holden Wheel Cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on highly polished alloy wheels.

EXTERIOR GLASS CLEANING

Glass cleaning - general

Special care should be taken to avoid scratching the glass. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are used. The blades can be cleaned by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

Ventilation system intake

The intake area between the bonnet and windscreen may collect leaves, which will impair air flow into the car.

It is recommended that this area be cleared of debris whenever you wash your car.

CARE & MAINTENANCE MATERIALS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
M39828	500 ml	Polymer glaze polish	Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage.
M39829	500 ml	Easy gloss polish	Contains silicones and hard working waxes for extra shine.
M39846	250 g	Deep shine glaze polish	Contains carnuba wax for a mirror finish.
M39830	500 ml	Wash on shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
M39831	500 ml	Foaming car wash	Leaves a no-streak finish.
M38424	400 g	Velour fabric and vinyl cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
M40383	350g	Tyre and bumper shine	Restores tyres and bumpers to as new finish.
M40501	350 g	Glass cleaner	Cleans all glass surfaces.
M39826	500 ml	Optikleen	Windscreen washer solvent.
M39168	125 g	Car freshener/deodorant	Removes tobacco smells and other odours.
M40500	300 g	Bug, tar and spot remover	Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior.

CARE & MAINTENANCE MATERIALS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
M39760	350 g	Spray grease	Lithium based grease in a can. Sprays as a liquid. Ideal for springs, cables, linkages etc.
M40276	750 ml	Wheel cleaner	Cleaning of all wheels, including alloy wheels.
M41005	1 litre	Brake fluid	Extra heavy duty brake fluid, suitable for this car.
92026651	500 ml	Brake fluid	Extra heavy duty brake fluid, suitable for this car.
M40236	1 litre	Radiator coolant / inhibitor	Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers freezing point for the cold winter months. Coolant increases boiling point of the cooling system for the summer months.
M40307	5 litres	' '	
M40238	20 litres	' '	
M39304	500 ml	Radiator cleaner	Use prior to replacing coolant.
M37223	400 g	Degreaser	Removes oil and grease from engines.
M33028	27 g	Solid oil	Lubricant for locking mechanisms, door hinges and sticking windows.

CHAPTER 12

Servicing

Page

12-2 Service intervals
12-3 Extreme operating conditions
12-4 Extreme operating coupons
12-5 Maintenance schedule
12-8 Service costs
12-11 Maintenance coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

1,500 km - 1 month
10,000 km - 6 months
20,000 km - 1 year
30,000 km - 1½ years
40,000 km - 2 years
50,000 km - 2½ years
60,000 km - 3 years
70,000 km - 3½ years
80,000 km - 4 years
90,000 km - 4½ years
100,000 km - 5 years
110,000 km - 5½ years
120,000 km - 6 years
130,000 km - 6½ years
140,000 km - 7 years
150,000 km - 7½ years
160,000 km - 8 years
170,000 km - 8½ years
180,000 km - 9 years
190,000 km - 9½ years
200,000 km - 10 years

The one month (1,500 kilometres) service will be performed "free of charge" by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary Letter of Introduction on request.

The services shown in this schedule between 20,000 km and 200,000 km are to be performed after 200,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's expense.

If service operations required disconnecting the battery (e.g. work to the electrical system of the car) you may wish to provide the servicing dealer with your P.I.N. so that he can re-activate the radio for you. Otherwise, you will have to input the P.I.N. yourself......keep the P.I.N. in a safe but accessible place!

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 9-2, so that you aware of the conditions.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important, as it will not only assist in determining Warranty Claims, but will enhance the value of the vehicle on resale.

EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change automatic transmission fluid and strainer @ 20,000km				D	E	F
Inspect front suspension and steering for leaks, wear or damage @ 5,000km	A	B				
Replace engine oil filter @ 5,000km or 3 months (whichever comes first)	A					
Change engine oil @ 5,000km or 3 months (whichever comes first)	A		C		E	F
Replace air cleaner element @ 20,000km	A					
Inspect and clean park brake linings @ 20,000km	A	B				
Change differential oil @ 20,000km					E	F

A = Dust, dirt, loose road material.

B = Muddy and wet areas.

C = Cold weather (below 5°C) and when most trips are less than 5km.

D = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving e.g. taxi, door to door delivery.

E = Caravan or trailer towing.

F = Extended heavy load high speed operation in temperatures above 35°C.

EXTREME OPERATING CONDITIONS

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

SPECIAL SERVICE FOR EXTREME
OPERATING CONDITIONS

Date .... km ....

Items performed: ....

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Servicing

Dealer ....

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	or years	1/12	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Under hood																						
Change engine oil and engine oil filter.		-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check fluid levels: brake, clutch, power steer, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check battery electrolyte and fluid level, if applicable.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(V6) Engine accessory drive belt. Check length indicator and belt condition.		-	-	-	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-
(V8) Check condition and tension of all engine drive belts using gauge.		-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.		X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drain and refill cooling system with recommended inhibitor. Clean outside of the radiator and A/C condensor.		Change every 2.5 years (regardless of kms)																				
Replace engine air cleaner element.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Vacuum check for PCV valve operation.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Replace spark plugs.		-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
(V8) Check ignition timing.		-	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-
Check carbon canister for leaks or restrictions.		X	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	1.5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	or years	1/12	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Under car

Replace fuel filter.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Check rear axle oil level.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Check rear axle and auto trans for leaks.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Change auto trans fluid and strainer.	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	X	-	-	-	-
Manual transmission. Check oil level.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Manual transmission. Check for leaks.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check front and rear disc pads for wear and disc surface condition. Rotate wheels.	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Parking brake - check linings and drums for wear.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X
Inspect tyres for irregular wear or damage. Check for damaged wheels. Check air pressures.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drain, refill and bleed brake system. Check brake performance when road testing.	Change every 2 years (regardless of kms)																				
Drain, refill and bleed clutch system. Check clutch performance when road testing.	Change every 2 years (regardless of kms)																				
Check all brake and fuel lines and hoses for condition, attachment and routing.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing, leaks, etc. Check condition of all rubber boots and covers.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect exhaust and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes, or loose connections.	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

MAINTENANCE SCHEDULE

Inspect constant velocity joint for damaged or torn boot.	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clean and lubricate automatic transmission shift linkage.	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-
Lubricate clutch cable end fittings	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Clean out air conditioning drain tubes.	-	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	X

Car interior

Check park brake operation.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X

Car exterior

Clear plenum chamber water deflector screens of leaves, etc.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check operation of all exterior lights.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lubricate hood catch, hinges, check links and lock cylinders.	-	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Check transmitter range of security system.	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Road test

Check braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check nautral start switch.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

SERVICE CHARGES

1,500 km (1 month)
free

10,000 km (6 months)
Labour: 0.5 hours
Parts: engine oil filter
Lubricants: engine oil

20,000 km (1 year)
Labour: 0.8 hours
add 0.1 hours V8 engine
Parts: engine oil filter
Lubricants: engine oil

30,000 km (1½ years)
Labour: 0.6 hours
Parts: engine oil filter
Lubricants: engine oil

40,000 km (2 years)
Labour: 1.4 hours
add 0.1 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

50,000 km (2½ years)
Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

60,000 km (3 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

70,000 km (3½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

80,000 km (4 years)
Labour: 1.4 hours
add 0.3 for auto
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter; auto trans strainer and gasket
Lubricants: engine oil; auto trans fluid

90,000 km (4½ years)
Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

100,000 km (5 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

110,000 km (5½ years)
Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

120,000 km (6 years)
Labour: 1.5 hours
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

130,000 km (6½ years)
Labour: 0.7 hours
0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

140,000 km (7 years)
Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

SERVICE CHARGES

150,000 km (7½ years)

Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

160,000 km (8 years)

Labour: 1.5 hours
add 0.3 for auto
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter; auto trans strainer and gasket
Lubricants: engine oil; auto trans fluid

170,000 km (8½ years)

Labour: 0.7 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

180,000 km (9 years)

Labour: 0.8 hours
add 0.1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

190,000 km (9½ years)

Labour: 0.7 hours
Parts: engine oil filter
Lubricants: engine oil

200,000 km (10 years)

Labour: 1.5 hours
add 0.2 for V8 engine
Parts: engine oil filter; spark plugs; air cleaner element; fuel filter
Lubricants: engine oil

In addition to the times, parts and lubricants listed above, the following operations will be charged for, when required, on a time only basis:

Brake fluid must be changed every 2 years (add charge for brake fluid and 0.4 hours labour)

Clutch fluid must be changed every 2 years (add charge for clutch fluid and 0.2 hours labour)

Engine coolant must be changed every 2½ years (add charge 0.4 hours labour, add engine coolant, add cooling system pellets for 3800 V6 engines only)

SERVICE CHARGES

- The owner will be charged for all lubricants and materials used plus labour at the times recommended on previous page.

- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.

  Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work required can be authorised.

- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your car.

1,500km or 1 month Service Coupon

This coupon should not be removed until the car is presented for service.

Owner's Name
Mr.
Mrs. ....
Miss.
Other...........

Address ....
Town & State .... Postcode ....
Reg. no. .... Engine no ....
I.S.O.V.I.N. .... Model ....
Selling Dealer's Stamp & Signature ....

Date of Acquisition ....

This car has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature ....

Servicing Dealer ....
Town .... State ....

Owner's signature ....

This service is provided FREE of charge.

1,500km or 1 month Service Validation

This car has been thoroughly checked in accordance with the 1,500 km/one month service.

Dealer ....
Service Manager's signature ....
Odometer reading ....
Date ....

Under hood

- ☐ Check fluid levels: oil, brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ☐ Check battery electrolyte and fluid level.
- ☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ☐ Check carbon canister for leaks or restrictions.

Under car

- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and adjacent underbody. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

Car exterior

- ☐ Check operation of all exterior lights.

Road test

- ☐ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

Refer to LPG supplement for additional servicing if LPG is fitted.

10,000 km or 6 months
Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.5 hours labour
- engine oil and engine oil filter

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, power steering, clutch, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

Under car

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

10,000km or 6 months Service Validation

Servicing Dealer ....

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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20,000km or 1 year Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours labour; add 0.1 hours V8 engine
- engine oil and engine oil filter

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

20,000km or 1 year Service Validation

Servicing Dealer ....

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car cont.

- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

30,000km or 1½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.6 hours labour
- engine oil and engine oil filter

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

30,000km or 1½ years Service Validation

Servicing Dealer .... Additional services performed: ....

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Date of Service .... Odometer ....

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Signed ....

Under car cont.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

☐ Clean and lubricate auto trans shift linkage.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

40,000km or 2 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.4 hours labour; add 0.1 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Replace engine air cleaner element.

☐ Vacuum check for PCV valve operation.

☐ Replace spark plugs.

☐ Brake fluid, **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid, **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

40,000km or 2 years Service Validation

Servicing Dealer ....

Additional services performed: ....

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Brake fluid changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Under car

☐ Replace fuel filter.
☐ Check rear axle oil level.
☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check oil level.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Parking brake - check linings and drums for wear.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Lubricate clutch cable end fittings.
☐ Clean out A/C drain tubes.

Car interior

☐ Check park brake operation.
☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Lubricate hood catch, hinges, check links and all lock cylinders.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

50,000km or 2½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ (V8) Check ignition timing.

☐ Check carbon canister for leaks or restrictions.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

50,000km or 2½ years Service Validation

Servicing Dealer .... Additional services performed: ....
Brake fluid changed: YES/NO ....
Coolant changed: YES/NO ....
Date of Service .... Odometer ....
Signed ....

Under car

- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brakeand fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.

Car interior

- ☐ Check park brake operation,.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

60,000km or 3 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

60,000km or 3 years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Lubricate clutch cable end fittings.

Car interior

☐ Check park brake operation.
☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Lubricate hood catch, hinges, check links and all lock cylinders.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

70,000km or 3½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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....

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

70,000km or 3½ years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

☐ Clean and lubricate auto trans shift linkage.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

80,000km or 4 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.4 hours; add 0.3 for auto; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- if auto trans fitted: add auto trans strainer, gasket and fluid
- spark plugs
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Replace engine air cleaner element.

☐ Vacuum check for PCV valve operation.

☐ Replace spark plugs.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

80,000km or 4 years Service Validation

Servicing Dealer .... Additional services performed: ....
Brake fluid changed: YES/NO ....
Coolant changed: YES/NO ....
Date of Service .... Odometer ....
Signed ....

Under car

- ☐ Replace fuel filter.
- ☐ Check rear axle oil level.
- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check oil level.
- ☐ Change auto trans fluid and strainer.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Parking brake - check linings and drums for wear.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.
- ☐ Clean out A/C drain tubes.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

90,000km or 4½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ (V8) Check ignition timing.

☐ Check carbon canister for leaks or restrictions.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

90,000km or 4½ years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

100,000km or 5 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

100,000km or 5 years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

110,000km or 5½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

110,000km or 5½ years Service Validation

Servicing Dealer ....

Additional services performed: ....

Brake fluid changed: YES/NO ....

Coolant changed: YES/NO ....

Date of Service .... Odometer ....

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Signed ....

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Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

☐ Clean and lubricate auto trans shift linkage.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

120,000km or 6 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Replace engine air cleaner element.

☐ Vacuum check for PCV valve operation.

☐ Replace spark plugs.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

120,000km or 6 years Service Validation

Servicing Dealer .... Additional services performed: ....
Brake fluid changed: YES/NO ....
Coolant changed: YES/NO ....
Date of Service .... Odometer ....
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Signed ....

Under car

☐ Replace fuel filter.
☐ Check rear axle oil level.
☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check oil level.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Parking brake - check linings and drums for wear.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Lubricate clutch cable end fittings.
☐ Clean out A/C drain tubes.

Car interior

☐ Check park brake operation.
☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Lubricate hood catch, hinges, check links and all lock cylinders.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

130,000km or 6½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

- ☐ Change engine oil and engine oil filter.
- ☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ☐ Check battery electrolyte and fluid level.
- ☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.
- ☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ☐ (V8) Check ignition timing.
- ☐ Check carbon canister for leaks or restrictions.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

130,000km or 6½ years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

140,000km or 7 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

140,000km or 7 years Service Validation

Servicing Dealer ....

Additional services performed: ....

Brake fluid changed: YES/NO ....

Coolant changed: YES/NO ....

Date of Service .... Odometer ....

Signed ....

Under car

- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

150,000km or 7½ years
Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

150,000km or 7½ years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Clean and lubricate auto trans shift linkage.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

160,000km or 8 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.3 for auto; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- if auto trans fitted: auto trans strainer, gasket and fluid
- spark plugs
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V8) Check condition and tension of all engine drive belts using gauge.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Replace engine air cleaner element.

☐ Vacuum check for PCV valve operation.

☐ Replace spark plugs.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

160,000km or8 years Service Validation

Servicing Dealer .... Additional services performed: ....

Brake fluid changed: YES/NO ....

Coolant changed: YES/NO ....

Date of Service .... Odometer ....

Signed ....

Under car

- ☐ Replace fuel filter.
- ☐ Check rear axle oil level.
- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check oil level.
- ☐ Change auto trans fluid and strainer.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Parking brake - check linings and drums for wear.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.
- ☐ Clean out A/C drain tubes.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

170,000km or 8½ years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ (V8) Check ignition timing.

☐ Check carbon canister for leaks or restrictions.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

170,000km or 8 ½ years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed ....

Additional services performed: ....

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Under car

☐ Check rear axle and auto trans for leaks.

☐ Manual transmission. Check for leaks.

☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.

☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.

☐ Check all brake and fuel lines and hoses for condition, attachment and routing.

☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.

☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.

☐ Inspect CV joint for damaged or torn boot.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.

☐ Check operation of all exterior lights.

☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

180,000km or 9 years
Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.8 hours; add 0.1 for V8 engine
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

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Signature .... Date ....

Under hood

- ☐ Change engine oil and engine oil filter.
- ☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ☐ Check battery electrolyte and fluid level.
- ☐ (V8) Check condition and tension of all engine drive belts using gauge.
- ☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

180,000km or 9 years Service Validation

Servicing Dealer ....

Brake fluid changed: YES/NO

Coolant changed: YES/NO

Date of Service .... Odometer ....

Signed..

Additional services performed: ....

....

....

....

....

Under car

☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Lubricate clutch cable end fittings.

Car interior

☐ Check park brake operation.
☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Lubricate hood catch, hinges, check links and all lock cylinders.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

190,000km or 9½ years
Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 0.7 hours
- engine oil and engine oil filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

....

....

....

Signature .... Date ....

Under hood

☐ Change engine oil and engine oil filter.

☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).

☐ Check battery electrolyte and fluid level.

☐ (V6) Engine accessory drive belt. Check length indicator and belt condition.

☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

☐ Brake fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)** Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)** Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

190,000km or 9½ years Service Validation

Servicing Dealer .... Additional services performed: ....

Brake fluid changed: YES/NO ....

Coolant changed: YES/NO ....

Date of Service .... Odometer ....

Signed ....

Under car

☐ Check rear axle and auto trans for leaks.
☐ Manual transmission. Check for leaks.
☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
☐ Inspect CV joint for damaged or torn boot.
☐ Clean and lubricate auto trans shift linkage.

Car interior

☐ Check park brake operation.

Car exterior

☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
☐ Check operation of all exterior lights.
☐ Check transmitter range of security system.

Road test

☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

200,000km or 10 years Service Coupon

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants, as listed:

- 1.5 hours; add 0.2 for V8 engine
- engine oil and engine oil filter
- air cleaner element
- spark plugs
- fuel filter
- if brake fluid changed add 0.4 hours plus brake fluid
- if clutch fluid changed add 0.2 hours plus brake fluid
- if engine coolant changed add 0.4 hours plus coolant plus (for V6 engines only) coolant pellets

Refer to LPG supplement for additional servicing if LPG is fitted.

There will also be a charge for additional services as requested:

....

....

....

Signature .... Date ....

Under hood

- ☐ Change engine oil and engine oil filter.
- ☐ Check fluid levels: brake, clutch, power steering, auto trans, washer. Check coolant inhibitor % with tester and check level (pressure test if level is low).
- ☐ Check battery electrolyte and fluid level.
- ☐ (V8) Check condition and tension of all engine drive belts using gauge.
- ☐ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ☐ Replace engine air cleaner element.
- ☐ Vacuum check for PCV valve operation.
- ☐ Replace spark plugs.

☐ Brake fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed brake system. Check brake performance when road testing.

☐ Clutch fluid. **Change at 2 years (regardless of kms)**
Drain, refill and bleed clutch system. Check clutch performance when road testing.

☐ Engine Coolant. **Change at 2.5 years (regardless of kms)**
Drain and refill cooling system (with recommended coolant). Clean outside of the radiator and A/C condensor.

200,000km or 10 years Service Validation

Servicing Dealer ....
Brake fluid changed: YES/NO
Coolant changed: YES/NO
Date of Service .... Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

Under car

- ☐ Replace fuel filter.
- ☐ Check rear axle oil level.
- ☐ Check rear axle and auto trans for leaks.
- ☐ Manual transmission. Check oil level.
- ☐ Manual transmission. Check for leaks.
- ☐ Inspect front and rear disc pads for wear and discs for surface condition. Rotate wheels.
- ☐ Parking brake - check linings and drums for wear.
- ☐ Inspect tyres for irregular wear or damage, check for damaged wheels. Check air pressures.
- ☐ Check all brake and fuel lines and hoses for condition, attachment and routing.
- ☐ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
- ☐ Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts, open seams, holes or loose connections.
- ☐ Inspect CV joint for damaged or torn boot.
- ☐ Lubricate clutch cable end fittings.
- ☐ Clean out A/C drain tubes.

Car interior

- ☐ Check park brake operation.
- ☐ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

Car exterior

- ☐ Clear plenum chamber water deflector screens. Clean of leaves, etc.
- ☐ Check operation of all exterior lights.
- ☐ Lubricate hood catch, hinges, check links and all lock cylinders.
- ☐ Check transmitter range of security system.

Road test

- ☐ Check car on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch.

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